DOCUMENT RESUME

ED 330 823 CE 057 511

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TITLE	Curriculum Development for an Associate Degree Career Ladder Program in Nursing. Final Report.
INSTITUTION	Williamsport Area Community Coll., Pa.
SPONS AGENCY	Pennsylvania State Dept. of Education, Harrisburg. Bureau of Vocational and Adult Education.
PUB DATE	15 Jul 88
CONTRACT	85-8008
NOTE	280p.; Tables 7 and 8 contain small type.
PUB TYPE	Reports - Evaluative/Feasibility (142) -- Guides - Classroom Use - Teaching Guides (For Teacher) (052) -- Tests/Evaluation Instruments (160)
EDRS PRICE	MF01/PC12 Plus Postage.
DESCRIPTORS	*Associate Degrees; Behavioral Objectives; Community Colleges; *Course Content; Course Descriptions; *Curriculum Development; Feasibility Studies; *Nursing Education; Program Content; Two Year Colleges
IDENTIFIERS	Williamsport Area Community College PA

ABSTRACT

This project report contains two major components: (1) a feasibility study to assess the need for an associate degree nursing program at Williamsport Area Community College, Pennsylvania; and (2) an appropriate curriculum developed for the project. The feasibility study describes the community characteristics, reviews the college resources, and presents results of surveys indicating the need for and interest in such a program. Appendixes include correspondence; charts illustrating the overall organization and administration of the college; survey instruments; memorandum of understanding; and letter of support. The curriculum includes the nursing admission policy; nursing philosophy; program goals and objectives; and catalog descriptions to be used in the 1988-89 college catalog. The seven courses cover nursing foundations; medical/surgical concepts and principles; advanced medical/surgical concepts and principles; pediatrics; maternity nursing; mental health nursing, and a nursing seminar. Course descriptions provide prerequisites; co-requisites; credits; rationale; and textbooks. A list of course objectives and outlines that correlate contributory objectives with course content and list related learning and evaluation activities are presented for each course. (YLB)

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FINAL REPORT

CURRICULUM DEVELOPMENT FOR AN ASSOCIATE DEGREE CAREER LADDER PROGRAM IN NURSING

(85-8008)

Davie Jane Nestarick
Linda Falchek-Clark

The Williamsport Area Community College
Williamsport, Pennsylvania

July 15, 1988

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Abstract

The Williamsport Area Community College, 1005 West Third Street, Williamsport, Lycoming County, Pennsylvania had received $39,793.00 for curriculum development of an Associate Degree Career Ladder program in Nursing (#85-8008). The contract period was from July 1, 1987 through June 30, 1988. The major purposes of this project were: (1) to assess, via a formal feasibility study, the need for an Associate Degree Nursing program within the community; (2) to research and develop the curriculum for an Associate Degree Nursing Program; (3) to develop a program budget, job description, and recruitment materials for the first class of ADN students; (4) to identify and obtain use of clinical sites for the program and (5) to develop program admission standards and competency standards for those seeking advanced placements. All of the objectives were met with the exception of advanced placement competency standards. This objective will be met closer to August 1990, which is the anticipated date the College can begin to accept advanced placement students.

Financial Summary

Line Item	Budget	Actual Expenditure
5100	$24,000.00	$24,000.00
5300	2,600.00	2,314.87
6160	500.00	500.00
7020	900.00	834.67
7310	32.00	32.00
7350	468.00	320.60
7520	1,695.00	1,199.80
8110	6,650.00	6,529.30
8130	2,948.00	2,768.36
TOTALS	$39,793.00	$38,499.60

Project Methodology

The scope of this project was broad based in its intent: to study the need for a nursing program leading to licensure as a registered nurse, and, if warranted, to develop an appropriate curriculum to meet the standards mandated by the Pennsylvania State Board of Nursing.

The responsibility of overall project supervision was assigned to the current Health Science Division Director, Davie Jane Nestarick. A full time curriculum coordinator, Linda Falchek-Clark, was employed for the primary purposes of research and curriculum development.

A broad range of material was reviewed for this two phase project. For the feasibility component, a review of nursing literature was conducted to provide necessary documentation on the scope of the nursing shortage at all levels: local, state and national. Data was also reviewed from the Williamsport Metropolitan Statistical Area Occupational Employment Probability Assessment Reports and the Labor Department's Occupational Outlook Handbook. For the curriculum development phase of the project, another review of nursing literature was conducted. This time with an emphasis on curricular design and implementation.

We also surveyed the following interest groups: (1) Health Care Facilities within the Williamsport service area, (2) High School Guidance Counselors within the College's service area, and (3) graduates of the College's Practical Nursing Program from years 1982-1987. The results of the surveys were encouraging for they indicated that the community in general was interested in and would be supportive of new initiatives by the College in nursing education.

Meetings were held with various specialty groups throughout all phases of this project. Members of the Williamsport Area Hospital Council met with College representatives prior to the actual funding period to discuss the nursing shortage, associate degree nursing programming and their relationship to the goal expressed by the College: "to offer programming which meets the needs of students, service area residents and employers in traditional occupations and emerging career fields." The Practical Nursing Advisory Committee met with the College and was supportive of our endeavors. Given the prevailing climate within health care today, the College's agreement to consider associate degree nursing programming has been regarded positively in both the community in general and in the health care community in particular.

Project Summary

The major purpose of this curriculum development grant was to determine the need for a nursing program within the Williamsport area community which would lead to licensure as a registered nurse. Once the need was documented, an appropriate nursing curriculum would be developed and submitted to the Pennsylvania State Board of Nursing for their approval prior to admitting a first class. This two-part goal was met within the time frames specified by the grant. Minimal problems were encountered during the process. However, with all projects which must be approved both externally (Pennsylvania State Board of Nursing) and internally (the College's Curriculum Committee and Board of Trustees) time conflicts presented minor problems.

The two major products produced as a direct result of this project were the feasibility study and the associate degree nursing curriculum. Included in the Nursing curriculum are the Nursing Admission Policy, Nursing Philosophy, Program Goals and Objectives, as well as catalog descriptions to be used in the 1988-1989 College catalog.

The results of this project will be utilized within the new Associate Degree Nursing Program at The Williamsport Area Community College for the Fall 1988 semester. This program is currently filled for the Fall semester and has a waiting list for the next class--evidence that the project itself was a success.

Attachments

The following material is presented in its entirety for grant review purposes. Although this material was submitted as one project to the Pennsylvania State Board of Nursing, for ease of reading it has been separated into two major components: I. Feasibility Study with Attachments, and II. Curriculum Design. Also attached is a copy of the program announcement sent to prospective students who requested information about the new Nursing program.

APPENDICIES

FEASIBILITY STUDY
ASSOCIATE DEGREE PROGRAM IN NURSING
THE WILLIAMSPORT AREA COMMUNITY COLLEGE
WILLIAMSPORT, PENNSYLVANIA

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SECTION I

Introduction

The Williamsport Area Community College, Williamsport, Pennsylvania, has its origins in the small industrial art shops provided by the Williamsport School District in the early 1900's. In 1920, a full-time adult day school and an evening school were established. The Williamsport Technical Institute was founded in 1941 and encompassed both the adult and high school programs. Expansion of programming lead to the establishment of The Williamsport Area Community College in 1965.

Today, the Community College is a comprehensive community college with a national reputation for the diversity and quality of its educational programs. It is a two-year, co-educational, publicly supported institution awarding associate degrees or certificates in over 60 programs. The College's philosophical platform revolves around a deep seated belief in the dignity and worth of the individual. Further, the College believes learning is a lifelong process and that education "should help individuals develop to their maximum capacity, technical excellence, occupational proficiency, and academic ability. We believe education should also provide for personal enrichment. To prosper in a complex and changing society, we believe individuals must learn to think independently, value logical and tested conclusions, develop problem solving abilities, and function effectively with other people. We believe that competent performance contributes significantly to individual health and happiness and benefits the organizations and communities in which the individuals work and live. We believe the College is an integral part of the community; it serves and must respond to identified needs and interests." In 1983-1984, the College began the generation of the Long Range Planning process and developed 14 goals which provided a general focus for institutional action. The 14 goals of The Williamsport Area Community College follow.

1.0 GOAL AREA: Vocational Technical Education

To offer programming which meets the vocational technical education needs of students, service area residents, and employers in traditional occupations and emerging career fields.

2.0 GOAL AREA: General Education

To ensure that students acquire an introductory knowledge of communications and mathematics, and appropriate social sciences, natural sciences and humanities in order to facilitate their acquisition of the skills and knowledge that will enable them to live effectively in society and/or to prepare them for further study.

3.0 GOAL AREA: Developmental Education

To identify and assess the basic skill levels of all students and provide program opportunities to ensure that students develop appropriate reading, writing, and mathematics competencies to succeed in college-level studies.

4.0 GOAL AREA: Lifelong Education

To instill in students and service area residents and appreciation for learning as a lifelong activity, and to provide programming which meets their vocational, avocational, social, and cultural interests.

5.0 GOAL AREA: Counseling and Advising

To provide comprehensive counseling services which permit the student to enjoy a smooth progression through the recruitment, admissions, career identification, and job placement processes and which employs effective academic advising and provides the opportunity for professional assistance in resolving personal difficulties.

6.0 GOAL AREA: Effective Management

To provide appropriate opportunities for all College constituencies to participate actively in institutional decision-making processes, in the accomplishment of institutional objectives and the achievement of College goals.

7.0 GOAL AREA: Accessibility and Student Services

To offer programs and services at affordable costs to students and at times and locations which optimize educational accessibility, and which meet the special needs of the College's student population.

8.0 GOAL AREA: Staff Development

To contribute to the quality of instruction and institutional operation by providing opportunities for College staff to develop professionally and to advance in their fields through the use of a staff development program based upon the needs of individual staff members.

9.0 GOAL AREA: Intellectual Orientation

To provide programming which emphasizes the process skills of inquiry, research, problem definition, problem solution, and which encourages students to embrace new ideas and ways of thinking.

10.0 GOAL AREA: Student Personal Development

To develop an atmosphere in which students are encouraged to identify personal goals and to develop the means for achieving them through fostering in the student a sense of self-worth, self-confidence, and self-direction.

11.0 GOAL AREA: College Community

To foster an atmosphere of the College as a community where lines of communication are open and candid and where a strong commitment to personal development and to the College's goals is maintained.

12.0 GOAL AREA: Instruction

To provide a program of instruction which maintains high standards of academic performance, which is innovative in the implementation of alternative instructional delivery systems, and which actively seeks to provide the most modern equipment, facilities, and instructional support services for the educational process.

13.0 GOAL AREA: Resources

To develop the fiscal, human, and physical resources needed to support the College's programs and services.

14.0 GOAL AREA: Physical Plant

To develop and maintain physical facilities that provide an environment that is safe, healthful, and conducive to learning.

The College is accredited by Middle States Association of Colleges and Secondary Schools, and is a member of the following: The American Association of Community and Junior Colleges, The Commission for Community Colleges, and The Pennsylvania Association of Colleges and Universities.

Over the past 24 years, the College and its predecessor, the Williamsport Technical Institute, have enjoyed an association with its Practical Nursing students. In January 1983, the

College opened a satellite Practical Nursing program at its North Campus in Wellsboro, Pennsylvania. The College has graduated in excess of 1,300 practical nursing students.

In the early 1980's, the College began considering the possibility of instituting an Associate Degree Nursing Program. Discussions were held with health care and educational administrators within the College's service area. Upon learning that Lycoming College was considering a baccalaureate program in nursing, the Community College decided not to pursue an ADN program at that time. Early in 1987, the College wrote a Vocational Education Curriculum Development Grant to study the feasibility of ADN programming. Prior to receiving approval for the curriculum development grant, the Chief Executive Officers and Directors of Nursing Service of the local hospitals contacted the College to discuss ADN programming (see Appendix A). The grant was funded in July and the College appointed the Coordinator of Practical Nursing to undertake the feasibility and curriculum development studies. The College also appointed an interim faculty facilitator to assist the Coordinator with the day to day operational activities of the Practical Nursing program.

As previously stated, one of the goals of the Community College is to offer programming which meets the needs of students, service area residents and employers in traditional occupations and emerging career fields. Historically, the College has received requests and inquiries from individuals, educational institutions, health care agencies and health care planners to establish health related training programs to meet the changing needs of health service agencies. To answer these requests, the College has consulted with a wide variety of internal and external advisors to create substantive, viable and needed programs. The service area of the College currently represents an interestd population for the establishment of an Associate Degree Nursing Program. The North Central Regional Council of the Hospital Association of Pennsylvania (see Appendix B) has expressed its strong support in the development of such a program. At the same time, the College has been encouraged by our advising health agencies to retain it's Practical Nursing Program. Early plans looked at a core curriculum concept to integrate both practical nursing and associate degree nursing. In light of the College's conference with the Board in November, 1987, and due to financial considerations anticipated with such programming, the College now proposes to retain the PN program as it is currently configured and to initiate the ADN program as a generic program. After the College graduates its first ADN class, it would then reconsider (via a State Board approved curriculum revision) the core concept. This time frame will allow the College time to evaluate student interest and related financial considerations.

The Williamsport Area Community College Main Campus represents the ideal setting for such a nursing program. The campus is centrally located to health care agencies and area high schools. With the opening of the $21 million Advanced Technology and Health Sciences Center this Fall, the College also has the appropriate facilities to deliver nursing instruction. Furthermore, the College has the finances, interest and desire to support this type of nursing program.

The College's conceptualization of an associate degree program is strongly supported by its faculty, administration and advisory board members. Investigation was completed into various methods to approach curriculum design. From this research it was determined that our current practical nursing curriculum would best be served by retaining its own configuration for the present time. This conceptual model best reflects the academic ideas and goals of the faculty, the administration and the institution.

The College's Nursing faculty perceives nursing education as a process in which the student acquires the necessary knowledge and skills to assist the individual or family throughout the wellness-illness continuum. Education at the postsecondary level should be broad-based and include selected courses from the natural sciences and humanities, as well as from the discipline of nursing. The faculty believe there is the need and the place for both the practical and the associate degree nurse in health care settings.

The following material was developed from various existing College documents, from discussions with health care providers within the local communities, and form surveys sent to former students, high school guidance counselors, and health care providers in the College's service area.

SECTION II

Community Characteristics

The Williamsport Area Community College is located in North Central Pennsylvania. The main campus is in the city of Williamsport, which has a population of over 33,000. Williamsport is the county seat of Lycoming County, which supports a population of over 118,000. The region is rural in nature and is supported primarily by farming and light industry.

The immediate service area of The Williamsport Area Community College is comprised of the 10 counties commonly grouped and referred to as North Central Pennsylvania. The service area includes the following counties: Bradford, Clinton, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga and Union. Lycoming county is part of the Susquehanna Economic Development Association-Council of Governments (SEDA-COG), an 11 county region. The following tables (1-3) depict the population characteristics for the College's immediate service area. All tables were provided by the SEDA-COG Regional Office in Lewisburg, Pennsylvania. The regional characteristics are:

1. The population of Lycoming County has increased since 1970, although slower or negative growth rates are projected for the last decade of the century (Table 1).
2. The per capita income and the median family income characteristics for Lycoming County as well as the rest of the SEDA-COG region are lower than both Pennsylvania and United States statistics (Table 2).
3. The rate of unemployment for the local region is consistent with that of the State and slightly lower than that of the United States (Table 3).

A diversity of postsecondary educational institutions exist within, or near, the College's service area. There are three private facilities--Bucknell University, Lycoming College, and Susquehanna University. In addition to the Community College, their are 2 state universities--Lock Haven and Mansfield. While not directly located in the College's service area Bloomsburg University in Columbia County attracts students from the region, as does The Pennsylvania State University in Centre County. Of these colleges and universities, the following have baccalaureate nursing programs: The Pennsylvania State University, Bloomsburg University, Mansfield University and Lycoming College. Diploma programs are located at Geisinger Medical Center in Danville, Philipsburg Hospital and The Williamsport Hospital and Medical Center (closing June 1988). Associate Degree Programs are

TABLE 1

PROVISIONAL POPULATION PROJECTIONS:
SEDA-COG REGION

GEOGRAPHIC AREA	1970 CENSUS	1975 ESTIMATE	1980 CENSUS	1985	1990	1995	2000	% CHANGE 1980-2000
				**************	PROJECTIONS	**************		
CENTRE	99,267	107,500	112,760	115,036	118,537	122,919	126,845	12.49%
CLINTON	37,721	38,300	38,971	39,638	40,434	41,381	42,237	8.38%
COLUMBIA	55,114	59,900	61,967	62,105	62,564	63,644	64,758	4.50%
JUNIATA	16,712	18,200	19,188	19,792	20,441	20,995	21,413	11.60%
LYCOMING	113,296	118,000	118,416	115,458	112,947	109,908	106,324	-10.21%
MIFFLIN	45,268	46,000	46,908	46,403	45,872	45,190	44,240	-5.69%
MONTOUR	16,508	17,100	16,675	16,977	17,507	17,814	17,659	5.90%
NORTHUMBERLAND	99,190	101,500	100,381	100,288	100,145	99,491	98,051	-2.32%
SNYDER	29,269	32,200	33,584	36,103	38,945	41,678	44,064	31.21%
UNION	28,603	31,900	32,870	33,462	34,729	36,043	36,884	12.21%
SUB-TOTAL	540,948	570,600	581,720	585,262	592,121	599,063	602,475	3.57%
PERRY	28,615	32,200	35,718	38,185	40,931	43,717	46,342	29.74%
TOTAL	569,563	602,800	617,438	623,447	633,052	642,780	648,817	5.08%

COMPILED BY PA. STATE DATA CENTER; JANUARY, 1986

TABLE 2

SELECTED DATA BY COUNTY FOR THE SEDA-COG REGION

	CENTRE	CLINTON	COLUMBIA	JUNIATA	LYCOMING	MIFFLIN	MONTOUR	NORTHUMBERLAND	PERRY	SNYDER	UNION	SEDA-COG	PA	U.S.
Land Area (Square Miles)	1,106	891	486	392	1,237	413	131	461	557	329	317	6,320	44,888	3,539,289
Total Persons	112,760	38,971	61,967	19,188	118,416	46,908	16,675	100,381	35,718	33,584	32,870	617,438	11,863,895	226,545,805
Percent Change 1970-1980	13.6	3.3	12.4	14.8	4.5	3.6	1.0	1.2	24.8	14.7	14.9	8.4	.5	11.4
Per Square Mile	101.9	43.7	127.5	49.0	95.7	113.7	127.3	217.9	64.2	102.0	103.7	97.7	264.3	64.0
Race-Percent White	97.00	99.24	99.47	99.77	97.96	99.54	99.29	99.67	99.69	99.26	96.60	--	89.92	83.44
Race-Percent Black	1.51	.42	.35	.04	1.43	.23	.12	.10	.06	.37	2.66	--	8.81	11.69
Males Per 100 Females	105.7	93.9	91.0	96.4	93.0	90.6	87.8	89.6	98.4	98.1	104.8	--	91.9	94.5
Median Age (Yrs.)	24.3	30.8	31.2	31.5	31.2	32.4	33.6	35.2	30.0	29.5	29.1	--	32.1	30.0
Persons Per Household	2.69	2.75	2.71	2.83	2.74	2.76	2.75	2.63	2.87	2.90	2.80	--	2.74	2.75
Birth Rate (Per 1,000 Pop.)	11.7	14.8	12.4	15.9	14.9	14.5	15.1	12.7	15.2	13.1	12.6	--	13.4	15.9
Death Rate (Per 1,000 Pop.)	5.9	9.9	10.4	9.4	9.3	9.7	10.6	13.0	8.5	8.3	8.0	--	10.4	8.7
Physicians Per 100,000 Pop.	111.7	79.5	90.4	31.3	159.6	91.7	1523.2	61.8	30.8	59.6	94.3	--	179.3	173.7
Hospital Beds Per 100,000 Pop.	283.8	626.1	719.7	--	718.7	486.1	9,985	281.9	--	--	2065.7	--	727.8	610.8
Nursing Home Beds	436	N/A	397	198	944	399	250	698	213	242	541	4,318	75,501	1,463,132
Serious Crime Rate (Per 100,000 Pop.)	4,099	2,905	2,526	1,371	3,735	2,905	1,375	1,871	2,328	1,485	1,539	--	3,662	5,750
Housing-Total Units	39,564	16,049	23,889	7,786	47,534	18,566	5,978	40,888	14,784	11,693	11,195	237,916	4,596,431	88,411,263
Housing-Percent Change 1970-1980	32.8	21.7	24.8	33.7	22.6	17.5	27.8	12.8	58.7	32.5	28.5	25.0	17.0	28.7

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SELECTED DATA BY COUNTY FOR THE SEDA-COG REGION/PAGE 2

	CENTRE	CLINTON	COLUMBIA	JUNIATA	LYCOMING	MIFFLIN	MONTOUR	NORTHUMBERLAND	PERRY	SNYDER	UNION	SEDA-COG	PA	U.S.
Year-Round Housing Units, Owner Occupied-Median Monthly Mortgage Payment ($)	347	296	295	277	322	295	302	270	311	301	336	--	336	336
Year-Round Housing Units, Owner Occupied-Median Value ($)	46,100	33,300	33,400	30,100	38,000	28,500	34,100	23,700	37,000	33,400	39,000	--	39,100	47,300
Year-Round Housing Units, Renter Occupied-Median Monthly Rent ($)	250	192	210	178	206	183	199	171	204	207	219	--	225	243
12 Yrs. or More of School Completed-% Persons Age 25+	75.8	63.7	63.5	55.3	65.6	57.6	60.3	57.6	61.1	59.2	65.5	--	64.7	66.5
16 Yrs. or More of School Completed-% Persons Age 25+	27.5	9.3	10.2	6.7	10.3	6.8	13.8	6.7	7.2	9.7	14.3	--	13.6	16.2
Per Capita Income ($)	7,765	8,163	7,879	8,314	8,951	7,786	8,811	8,557	7,872	7,926	8,221	--	10,366	10,495
Median Family Income	19,099	17,036	16,455	15,659	17,754	17,012	18,654	15,862	18,135	17,218	18,083	--	19,995	19,917
Persons With Income Below Poverty Level (1,000)	16.3	4.1	6.7	2.4	12.4	6.1	1.3	11.3	2.9	3.3	2.6	69.4	1209.8	27,392.6
Local Government Property Taxes, Per Capita ($)	103	69	111	48	139	77	102	82	57	75	80	--	194	274
Acreage in Farms (1,000)	164	48	131	98	161	89	55	128	123	101	75	1,173	8,747	1,029,695
Average Size of Farm (acres)	199	167	145	159	171	138	166	161	168	134	149	--	146	415
Average Size of Family (or individual) Farm (acres)	178	160	131	152	158	129	157	148	158	127	128	--	134	316

SOURCE: U.S. Bureau of the Census, County and City Data Book, 1983.

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TABLE 3

UNEMPLOYMENT RATE BY COUNTY BY MONTH: 1986-1987

COUNTY/AREA	JAN 1987	FEB 1987	MAR 1987	APR 1987	MAY 1987	JUN 1987	1986 JUL	1986 AUG	1986 SEP	1986 OCT	1986 NOV	1986 DEC	12-MONTH AVERAGE	COUNTY/AREA
CENTRE	6.0	5.5	5.4	4.4	4.8	6.2	5.7	5.5	5.7	5.2	5.5	4.5	5.4	CENTRE
CLINTON	9.9	8.9	9.6	8.0	7.5	10.4	6.5	7.9	7.3	6.8	7.0	5.8	8.0	CLINTON
COLUMBIA	9.6	10.3	9.5	8.2	6.9	6.5	9.6	6.8	6.3	5.6	6.9	6.4	7.7	COLUMBIA
JUNIATA	10.0	10.5	9.6	7.5	5.6	5.6	5.3	5.0	4.9	6.0	8.3	7.5	7.2	JUNIATA
LYCOMING	7.1	7.3	6.9	5.3	5.0	5.3	6.0	5.8	5.8	5.6	6.3	5.3	6.0	LYCOMING
MIFFLIN	8.3	8.4	8.0	6.9	9.0	9.6	9.6	8.0	7.5	8.9	10.3	6.5	8.4	MIFFLIN
MONTOUR	5.3	5.4	5.0	3.5	2.6	3.1	4.8	3.9	4.2	4.2	4.4	4.1	4.2	MONTOUR
NORTHUMBERLAND	8.2	7.8	7.0	7.4	6.0	6.6	8.6	7.4	6.8	6.3	6.7	5.1	7.0	NORTHUMBERLAND
PERRY	6.3	6.5	6.2	3.7	3.6	4.3	5.5	4.7	4.3	5.1	5.2	4.3	5.0	PERRY
SNYDER	5.1	5.6	4.6	3.1	2.5	3.3	3.8	3.8	3.8	3.8	4.0	4.8	4.0	SNYDER
UNION	5.9	5.5	5.0	4.1	3.7	3.8	4.5	4.2	3.6	3.2	4.2	3.6	4.3	UNION
SEDA-COG	7.4	7.3	6.8	5.8	5.4	6.1	6.7	6.0	5.8	5.6	6.3	5.2	6.2	SEDA-COG
PENNSYLVANIA	6.5	6.4	6.2	5.4	5.4	6.2	6.7	6.3	6.4	5.7	6.0	4.7	6.0	PENNSYLVANIA
U.S.	7.3	7.2	6.9	6.2	6.1	6.3	7.0	6.7	6.8	6.6	6.6	6.3	6.7	U.S.

SOURCE: PA. OFFICE OF EMPLOYMENT SECURITY located at Harrisburg Area Community College and Luzerne County Community College.

A wide diversity of health and related social service agencies are located in the College service area. The largest concentration is found in Williamsport/Lycoming County. The following is a partial list of available services within the county.

Alcoholics Anonymous
Al-Anon
American Cancer Society
American Heart Association
American Lung Association
American Red Cross
American Rescue Workers
Bi-County Office of the Aging
BLAST Intermediate Unit #17
Community Mental Health Services
Divine Providence Hospital
Epilepsy Society of Central Pennsylvania
Family Planning Center
Hope Consolidated Services
Jersey Shore Hospital
Lycoming County Association for the Blind
Lycoming County Children and Youth Services
Lycoming County Crippled Children's Society
Lycoming County March of Dimes (Birth Defects)
Lycoming United Way
Lycoming Valley Association for the Deaf
Pennsylvania Department of Health
Pennsylvania Department of Public Welfare
The Salvation Army
The Williamsport Hospital and Medical Center
WIC Program (Women, Infants & Children)
Wise Options for Women

SECTION III

College Resources

Appendices C-E depict the overall organization and administration of The Williamsport Area Community College. The College Deans and the Associate Dean of the North Campus report directly to the President. The Academic Area is organized into Divisions with a Director as chief officer. The Division Director is responsible for the administration of the Division and reports directly to the Academic Dean. Additionally, in the Health Science Division, there are Coordinators of specific health programs who report to the Division Director.

Facilities

Hands-on educational experiences are the hallmark of The Williamsport Area Community College. Students work in classrooms and state-of-the-art laboratories that simulate actual work environments. Modern facilities highlight the campuses. Six buildings have been completed since 1981.

There is adequate space on campus to absorb associate degree nursing students due primarily to the opening of the Advanced Technology and Health Sciences Center. There are adequate classrooms of various sizes on campus. New science labs were completed in 1984. There is more than adequate space for students within the nursing skills laboratory.

The library is centrally located in the Learning Resources Center (LRC) constructed in 1980. It houses approximately 36,000 volumes and has a seating capacity of 177.

The Learning Resources Center is also a member of the Susquehanna Library Cooperative (SLC), the Associated College Libraries of Central Pennsylvania (ACLCP), and the Pennsylvania Library Network (PALINET). The Learning Resources Center provides on-line computer capabilities through the Bibliographical Retrieval System (BRS) and On-Line Computer Library Center (OCLC).

The library budget is separate from departmental budgets. Consideration will have to be given to increasing the holdings in Nursing to meet the needs of students in an Associate Degree Program. Periodicals relating to nursing are purchased through the library budget, and are therefore not reflected in the nursing budget.

Adjacent to the Learning Resources Center is the Tutoring Center which is available to students 5 days a week from 8:00 a.m. to 9:00 p.m.

Faculty

The College recognizes the need for qualified instructors in the ADN program. To this end, the College is committed to hiring and/or retraining appropriate personnel necessary to meet the requirements as outlined by the State Board of Nursing.

All faculty members teach, and the teaching load is agreed upon by the College and the Williamsport Area Community College Educational Association (WACCEA). The current teaching load in the Health Science areas does not exceed 25 contact hours per week, with a student/faculty ratio of less than 15:1 in the clinical area. The Fall 1987 semester statistics show a clinical ratio of 9.2:1. Consideration is given to a lower student faculty clinical ration for Associate Degree Nursing. A ratio of 8-10:1 is proposed. An Associate Degree program director will be identified upon program approval by the State Board of Nursing.

Students

As with many institutions, enrollments have been declining since 1984. Total College enrollments have decreased 12.1 percent since 1984, wholly as a result of decreases in postsecondary enrollments. It is important to note, however, that as of the Fall 1987 semester, overall College enrollments have increased by 4.2 percent. Postsecondary enrollment decreases have been the result of the change in the sponsorship status of most residents of the ten county service area. Whereas, in 1984, 58 percent of students paid the sponsored tuition rate, in 1986, only 16 percent were residents of the sponsor district. Hence, the tuition rate nearly doubled for 42 percent of the potential student population by virtue of the change in the sponsorship agreement. Of the 1986 total enrollment of 13,026 (3,781 EFT's), there were 1,512 females and 2,269 males.

The program of student services is administered by the Office of the Dean of Student Services and includes the Admissions Office, College Activities, Financial Aid, and Advisement and Career Services Center. Students may choose from a wide range of activities including the College Governance System, Student Government Association, the Women's Forum, Spotlight (the campus newspaper), WWAS (the campus radio station), as well as various career related organizations.

All students have an advisor within their respective program of study. Special advising and counseling through the Advisement and Career Services Center is available to all students on an as needed basis.

Curriculum

The academic year at the College is organized into a Fall and a Spring semester, a five-week May term, and a June term which varies in length from 7 to 12 weeks. Courses are computed on a credit load basis with a 1:1 ratio for lecture hours and a 3:1 ratio for lab hours. The normal full time credit load is 12-18 credit hours per semester.

All graduates of accredited secondary schools in the Commonwealth of Pennsylvania are eligible for admission to the College as regular students. Admission into a specific program is based upon evidence of scholastic readiness for the program. In addition to the College's general admission policy, applicants to certain programs, mainly in the Health Science Division, must complete other requirements prior to qualifying for acceptance.

To be eligible for graduation from an Associate Degree program at the College, the student is expected to satisfy the following:

A. Complete courses required in a specific program of study as set forth in the catalog.

B. Complete a minimum of 30 credits in courses offered by The Williamsport Area Community College. A student must be enrolled for at least the last 12 credit hours of a program.

C. Earn at least a "C" average (2.00 cumulative grade point average) and complete all required courses with a grade of "D" or better.

D. Satisfy health and physical education requirements as stated in a student's curriculum.

E. Fulfill all financial obligations to the College.

F. Specific admission requirements for the Associate Degree Nursing Program are listed in the curriculum component of this document.

Most courses related to the Associate Degree Nursing curriculum are currently in place as regular College offerings. Below is a partial list of such courses:

Biology (BIO)

BIO 115 - Human Anatomy & Physiology I
BIO 125 - Human Anatomy & Physiology II
BIO 201 - Microbiology

Chemistry (CHM)

CHM 100 - Fundamentals of Chemistry
CHM 111 - General Chemistry I
CHM 121 - General Chemistry II
CHM 122 - Introductory Organic Chemistry

Psychology (PSY)

PSY 111 - General Psychology
PSY 201 - Abnormal Psychology
PSY 203 - Developmental Psychology

English (ENL)

ENL 111 - English Composition I
ENL 121 - English Composition II

Sociology (SOC)

SOC 111 - Introduction to Sociology

In addition, examples of other courses of interest to nursing students are:

CSC 102 - Introduction to Microcomputers
CSC 104 - Microcomputer Fundamentals
ENL 202 - Fundamentals of Speech
MTH 101 - Introduction to Math I
MTH 201 - Elementary Statistics I
PHL 121 - Ethics and Political Philosophy
SOC 231 - Marriage and the Family
PSY 241 - Social Psychology

Based upon a planning assumption of admitting 28-30 students per year, the impact on courses outside the realm of nursing would be absorbable at the department level. The only exception to this would be in Biology and would probably necessitate the hiring of a part time faculty member to assume coverage of the laboratories associated with those courses.

Financial

The Community College Act establishes the method of funding for the community colleges. Basically, the act states that revenues for operating budgets are generated from three main sources: the Commonwealth, the local sponsor (the City of Williamsport) and the student. Theoretically, each party pays one-third of the tuition costs.

The environment of The Williamsport Area Community College changed on July 1, 1986, when the sponsorship of the College

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passed from 20 school districts to the City of Williamsport. The new sponsorship arrangement has resulted in changes in the types of students who enroll at the College; the College has needed to rely more on enrollments from people who reside outside of the ten county service area.

Historically, community colleges in Pennsylvania have been disadvantaged in three important areas in their quest for adequate funding from the state. Foremost, the community colleges, collectively, do not have a strong, extensive public constituency because they are neither old enough nor large enough; accordingly, they also do not have an inherently strong base of support for legislative initiatives with substantial fiscal impact. Second, the 1964 legislation establishing community colleges and the funding basis for community colleges was critically flawed from the outset. The provisions for funding included no escalator clause, and thus require, each year, passage of specific enabling legislation separate from an omnibus appropriation act to increase funding. Further, no mechanism or staffing has ever been provided for coordination, advocacy, and other support at the state level.

Despite those deficiencies, the community colleges did secure substantial new dollars in the state's appropriation for 1984-85 with passage of variable stipend legislation. That legislation established new state-wide and advanced technology stipend categories by which the state pays a premium per equivalent full-time (EFT) enrollment in certain programs. In 1986-87 just under 40 percent of the College's total EFT enrollments qualified for one of these new categories. Despite that infusion of new dollars, the College's state allocation remains below one-third of the cost per EFT for operating.

The primary thrust of future lobbying efforts by supporters of community colleges in Pennsylvania is expected to be revision of present formulas for funding. In particular, present limits on the state's share of funding (a maximum of one-third of $2,400) and levels of stipend funding for approved occupational programs will be targeted for increases.

Tables 4 and 5 indicate current revenue and expenditures for the Community College. A four-year budget is reflected in Table 6 and indicates allocations for both the new ADN and current PN options. Initially, the College plans to hire full and part time faculty to maintain a clinical ratio of one (1) faculty member per ten (10) first year students admitted to the ADN program. Keep the same clinical ratio of one (1) faculty member per ten (10) students. Faculty members will be responsible for both classroom and clinical experiences.

The Community College is prepared to provide financial support for this program. Administrative, faculty and clerical

TABLE 4

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
REVENUE AND OTHER ADDITIONS BY SOURCE[a]
FOR FISCAL YEARS 1981-82 to 1985-86

Source	Fiscal Year									
	1981-82		1982-83		1983-84		1984-85		1985-86	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Tuition and Fees	$5,329,178	33.95	$6,210,963	29.48	$6,749,031	29.99	$6,305,103	24.61	7,391,603	20.49
Federal Appropriation	858,583	5.47	223,369	1.06	268,847	1.20	1,066,165	4.11	275,495	0.76
State Appropriation	3,920,473	24.98	4,172,516	19.80	5,878,983	26.12	6,855,256	25.94	9,890,282	27.42
Sponsor Appropriation	2,828,224	18.02	3,710,390	17.61	3,974,343	17.66	3,946,097	14.93	2,797,215	7.76
Grants and Contracts	1,122,826	7.16	2,335,944	11.09	822,330	3.65	3,989,976	15.10	2,812,500	7.80
Private Gifts, Grants and Contracts	235,556	1.50	239,858	1.14	619,390	2.75	590,849	2.24	211,793	0.59
Investment Income	701,201	4.47	1,243,780	5.90	936,657	4.16	1,247,412	4.72	1,157,918	3.21
Sales and Services of Educational Projects	---	---	47,500	.23	-	-	-	-	-	-
Sales and Services of Auxiliary Enterprises	548,173	3.49	635,579	3.02	691,917	3.07	1,126,609	4.26	1,200,749	3.33
Other Revenue	148,570	.95	117,879	.56	121,665	.54	307,419	1.16	233,568	0.65
Bond Issue Proceeds	---	---	2,129,944	10.11	2,444,882	10.86	775,299	2.93	10,094,941	27.99
Total	15,692,784	100.00	21,067,722	100.00	22,508,045	100.00	26,430,185	100.00	36,066,064	100.00
Percent Change		(22.22%)		34.25%		6.84%		17.43%		36.46%

Source: The Williamsport Area Community College
Certified Financial Statements

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[a]NOTES:

REVENUE AND OTHER ADDITIONS BY SOURCE

1. Tuition and Fees: All tuition and fees paid by students for operating and capital.
2. Federal Appropriation: Federal share: College workstudy and SEOG Grants, and grants for facilities improvement program.
   -PELL Grants are agency funds and are not included.
3. State Appropriation: All Revenues from state for operating and capital including state share of capital for funded grants.
   - PHEAA Grants are agency funds and are not included
4. Sponsor Appropriations: All revenue from school districts and other community colleges for operating and capital.
5. Grants and Contracts: Granting agency share of funded grants.
6. Private Gifts, Grants and Contracts: Private gifts for graduation awards, scholarships and pledges for building campaign fund.
7. Investment Income: Earning on short term investments of College funds.
8. Sales and Services of Auxiliary Enterprises: Revenue generated from sale of instructional products; 1981/82 sales are shown as offsets expenditures.
9. Other revenue.
10. Bond Issue Proceeds: Proceeds from state public school building authority sale of bonds for Stage I of building program.
11. Additions to invested in plant fund are not included.

TABLE 5

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
EXPENDITURES AND OTHER DEDUCTIONS BY FUNCTION[a]
FOR FISCAL YEARS 1981-82 to 1985-86

Function	Fiscal Year									
	1981-82		1982-83		1983-84		1984-85		1985-86	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Educational and General										
Instructional	6,863,745	45.36	7,438,397[b]	38.73	7,720,534	32.69	9,751,062	40.00	10,963,338	32.37
Academic Support	---	----	1,437,388[b]	7.49	1,789,491	7.58	1,986,552	8.15	2,115,337	6.25
Student Services	597,654	3.94	541,044[b]	2.82	503,349	2.13	616,267	2.53	805,915	2.38
Institutional Support	2,822,064	18.65	1,913,644[b]	9.96	2,030,622	8.60	2,217,770	9.10	2,398,401	7.08
Operation and Maintenance of Plant	1,707,500	11.28	1,529,178	7.96	1,615,725	6.84	1,732,691	7.31	1,657,395	4.89
Scholarships and Grants	282,962	1.87	244,717	1.27	272,347	1.15	293,377	1.20	316,071	0.93
Sub-Total	12,273,925	81.11	13,104,368	68.23	13,932,066	59.00	16,647,719	68.28	18,256,457	53.90
Auxiliary Enterprises	497,292	3.28	542,860	2.83	671,307	2.84	1,071,335	4.39	1,100,285	3.25
Refunded to Grantors	---	---	---	---	17,250	.07	---	---	---	---
Loan Cancellations	797	.01	1,963	.01	1,171	.01	---	---	2,177	0.01
Building Campaign Expenses and Provision for Uncollectibles	11,600	.08	---	---	---	---	---	---	---	---
Expended for Plant Facilities and Equipment	1,562,873	10.33	4,770,878	24.84	7,785,448	32.97	5,037,027	20.66	11,332,585	33.46
Mandatory Transfers/ Debt Service	785,775	5.19	785,875	4.09	1,206,420	5.11	1,624,114	6.66	3,176,038	9.38
Total	15,132,262	100.00	19,205,944	100.00	23,614,664	100.00	24,330,194	100.00	33,867,543	100
Percent Change		(24.53%)		26.92%		22.95%		3.24%		38.91%

Source: The Williamsport Area Community College
Certified Financial Statements

(a) By Function - Classification of expenditures by an activity having related purposes.

(b) CPA breakout Academic Support from Instructional Support beginning 1982-83 FY.

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TABLE 6
THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

FOUR-YEAR PROJECTED BUDGET

DESCRIPTION	1988-1989	1989-1990	1990-1991	1991-1992
Salaries - Professional	$ 35,900	$ 38,413	$ 41,102	$ 44,082
Salaries - Clerical	12,500	13,375	14,311	15,349
Faculty - Full Time	165,911	174,199	183,067	192,895
Faculty - Substitute	500	600	650	700
Part Time & Overload	11,700	11,902	12,118	12,357
Telephone	325	400	425	450
Instructional Supplies	4,500	5,000	5,000	3,500
Non-Instructional Supplies	300	400	450	450
Periodicals & Subscriptions	100	125	150	175
Travel	200	300	450	400
Staff Development	675	700	700	750
Miscellaneous Expense	500	500	500	500
Printing/Duplicating	1,500	1,500	1,600	1,700
TOTAL OPERATING BUDGET	$234,611	$247,414	$260,523	$273,308

salaries for the first operational year of the program have been included in the 1988-89 budget calculations.

The College recognizes the cost of its Health Science programs in general, and its nursing program in particular. Academic institutions seldom realize excess incomes over expenditures until cost effective enrollments are achieved.

Budgetary notes include the following factors:

1. No indirect costs are projected since individual cost centers at the College are not responsible for these items.
2. Full time faculty salaries have been increased to include the PN faculty members needed to maintain that program.
3. Periodicals and subscriptions are those for office use only. The budget of the Learning Resources Center will absorb the cost of books and periodicals for student use.
4. Staff development monies have been increased. Additional monies for faculty are obtainable through a College-wide bid process initiated through the office of the Associate Dean of Educational Advancement.
5. Instructional supply monies have been increased from the College's first proposal to include materials for Physical Assessment.

SECTION IV

Nursing

Need

The initiation of a new program must demonstrate both a significant number of potential students and available job markets for the graduates. In order to establish the need to add the ADN component to our currently existing Practical Nursing, the health care agencies in our service area were surveyed. To assure the availability of an adequate source of potential candidates, local high schools as well as former graduates of our PN program were also surveyed. The survey instruments and cumulative responses appear in Appendix F-H.

Program Need

In the late summer of this year, questionnaires were distributed to 18 organized health care agencies within the College's service area. Agencies surveyed were those believed to be a potential source of employment for graduates, as well as possible clinical sites if needed for the program. Eighteen health care agencies were surveyed with an 83 percent response rate. Of these agencies, the total registered nurse employment is 1,662. Of these institutions, 77 percent indicated difficulty in filling budgeted RN vacancies. A total of 120 vacant full time and part time RN positions were reported by the agencies. Eleven (11) of the agencies predicted an increase in the need for registered nurses within the next five (5) years. Fifteen (15) of the respondent agencies indicate they would be willing to hire a graduate from an associate degree program.

A total of 715 full and part time LPN positions are utilized by the responding agencies. Of these, 60 percent indicated difficulty filling vacant positions. The average entry-level salary for LPN's in the College's service area is $6.49 hourly/$13,500 annually. Respondents were reluctant to share RN salary data. Ninety-three percent (93%) of the local agencies stated they would encourage their LPN's to pursue further education and training at the Associate Degree level.

The above data illustrate that the majority of health care agencies surveyed within the College's service area are supportive of an Associate Degree Program and would be willing to hire graduates of the program. It should be noted that with the closing of The Williamsport Hospital & Medical Center's School of Nursing in June 1988, another source of potential RN employees for the local health care agencies will close. The Williamsport

Area Community College is convinced that an Associate Degree program is not only feasible, but needed.

Interest of Candidates

As with any new program at the Community College, a sufficient number of potential students and the ability to secure employment after graduation are important considerations. In an attempt to evaluate the adequacy of interested candidates, 47 high schools within the College's recruiting district were asked to distribute a questionnaire to all students in either health career clubs or prospective seniors anticipating a career in nursing. The survey instrument with cumulative responses appear in Appendix G. Of the 45 responses received from 14 high schools, 88 percent plan to pursue registered nursing as a career, and the remaining 12 percent as either LPN's or Nursing Aides. Slightly over half--51 percent--of the respondents indicated they would consider such a program at the College if it were offered. It is interesting to note, however, that although 51 percent indicate interest in the Community College, 88 percent want further information about the program if it is developed.

A second source of candidates for the program is graduates from the practical nursing program. In an attempt to project this potential source, a questionnaire was sent to 392 former students. The survey instrument and cumulative responses appear in Appendix H. Of that original number, 126 responses were received, and 84 percent expressed interest in the program. Another 5 percent told us they were currently enrolled in R.N. programs at other facilities.

A third potential source of candidates for the program is from the pool of unsolicited, documented calls to the Practical Nursing, Admissions, and Advisement Offices on campus. Local interest in the proposed program is high, and, to date, the College has received in excess of 30 calls. It is impossible, however, to statistically determine the probability of attracting this classification of candidate.

In addition to the above sources, informal conversations with the Admission's Office and faculty from support courses such as Communications and Science, indicate that the Community College has historically serviced students anticipating entrance into existing nursing programs. These students have used the Community College in terms of preparatory transfer coursework required by other nursing programs.

The Williamsport Area Community College has always strived to meet the emerging needs of its students and the community it serves. An associate degree nursing would fulfill the committment of the College to meet the needs of the service region.

Local and National Trends

The critical nursing shortage is well documented; not only locally, but also state wide and throughout the country. This shortage is expected to continue into the 1990's. The American Hospital Association has calculated a 13.6 percent vacancy rate for RN's across the nation. A study completed by the American Organization of Nurse Executives (AONE) indicates the current shortage exists in hospitals of all sizes in every region of the country, with the most serious recruitment problems being reported in the Northeast, Mid-Atlantic, and Pacific Coast states. According to AONE, in the Northeast, an average of 71 percent of vacant positions remained unfilled for more than 60 days.

The Labor Department's Occupational Outlook Handbook indicates that the service industries, including both Registered and Licensed Practical Nurses will account for almost 75 percent of all new jobs through 1995. Given the effects of an aging population, it is estimated that annual expenditures will soar past $1 trillion, and employment in most health related fields will rise faster than it has in the past.

The Williamsport Metropolitan Statistical Area (Williamsport-MSA) Occupational Employment Probability Assessment Reports of relative ranking and grade of occupations is based upon a combination of the following factors: current employment (1980); projected employment (1990); volume of growth in number of new jobs; rate of employment growth; and the number of annual average job openings. In this report of planning information for fiscal year 1987, Professional Nurse and Licensed Practical Nurse are ranked numbers 1 and 14 respectively in terms of employment probability for the area, with the lower ranked occupations having a higher probability of employment (see Table 7). This data corresponds to Pennsylvania's Relative Ranking and Grade (see Table 8). Over 6,000 jobs are estimated to be available each year in Pennsylvania in the occupation of registered nurse.

Clinical Facilities

It is anticipated that the associate degree program will offer classes beginning in the Fall 1988 semester and will admit 28-30 students yearly. In as much as the College has had success in working with health career programs in smaller numbers, it is anticipated the classes admitted will remain 30 in number. Given these small numbers, and given the types of health care agencies within the College's service area, the College believes that the currently approved agencies (The Williamsport Hospital & Medical Center, Divine Providence Hospital, and Lysock View Nursing Home) will continue to meet the needs of the curriculum (see Table 9). In addition, The Williamsport Hospital & Medical Center is closing their diploma program in June 1988; therefore freeing the facility for an additional collegiate program. The first year of the curriculum will continue to base the clinical experience in the following areas: acute and chronic medical-surgical conditions, and geriatrics. The second year of the curriculum will include clinical experiences in acute and chronic medical-surgical conditions, mental health conditions and maternal/child health problems.

The College is aware, however, of the changing climate within the health care setting. If, at any point in the curriculum these affiliations no longer contribute to the overall learning experiences of the students, new affiliations will be explored. Reference is made to Memoranda of Understanding in support of The Williamsport Area Community College Associate Degree Nursing Program (see Appendices I-J). Please note that the Memoranda of Understanding was sent to and signed by the following hospitals and institutions: The Williamsport Hospital & Medical Center, Divine Providence Hospital, Lock Haven Hospital, Jersey Shore Hospital, Muncy Valley Hospital, Bucktail Medical Center, Soldiers and Sailors Memorial Hosptial, and Robert Packer Hospital.

SECTION V

Summary

The Williamsport Area Community College of Williamsport, Pennsylvania, requests permission to initiate an Associate Degree Nursing Program at its Main Campus in Williamsport. The main campus is located in Lycoming County, 90 miles north of Harrisburg and 70 miles west of Wilkes-Barre. Since the Community College is dedicated to serving the needs of the community and its citizens, the campus serves as a two-year college, an evening and weekend college, and a special course college offering programming throughout the weekday and weekend.

An associate degree nursing program will help meet the needs for nursing personnel within the College's immediate service area, and potentially benefit other regions of the Commonwealth as well. This program will not provide for career mobility for the Licensed Practical Nurse who wishes to become a Registered Nurse initially, but after graduation of its first class, career mobility options will be explored by the College.

A need for nursing personnel prepared at the Associate Degree level exists because of (1) increased acuity levels in both hospitals and nursing homes has necessitated the hiring of additional staff; (2) the well-documented nursing shortage has exacerbated the problem of recruited and hiring of qualified nursing personnel; and (3) with the closing of the diploma nursing program at The Williamsport Hospital & Medical Center, this program will offer career opportunities which will benefit both the individual and meet the health needs of the College's service area.

In addition to need, the Associate Degree Program will offer educational opportunities to the student in that it provides upward mobility incentives available locally, allowing the student to remain within a reasonable distance of home and family. The Associate Degree curriculum will eventually allow the student the opportunity to participate in an educational process which recognizes and values pervious learning experiences and competencies.

Finally, the Associate Degree Nursing program will assist the College in fulfilling its mission to the community it serves by initiating programming designed specifically in response to a need expressed by regional health care planners. The establishment of this program will enhance and expand current Health Science offerings at the College, and has the support of faculty, staff and administration at The Williamsport Area Community College.

TABLE 7

WILLIAMSPORT MSA
(LYCOMING COUNTY)
OCCUPATIONAL EMPLOYMENT PROBABILITY ASSESSMENT REPORT
RELATIVE RANKING AND GRADE
OF
TOP 40 OCCUPATIONS

The following list of the top 40 occupations in Williamsport MSA for the 1980s contains occupations with a higher degree of potential employability based on a combination of the following factors: Current Employment (1980); Projected Employment (1990); Volume of Growth in number of new jobs; Rate of Employment Growth; and number of Annual Average Job Openings. In fact, these 40 occupations account for 43% of total projected employment in Williamsport MSA and 51% of all annual average job openings for this area for the 1980-1990 period.

OCCUPATION	DOT CODE 1/	SOC CODE 2/	PRIMARY TRAINING PROGRAM CIP CODE 3/	SVP 4/	LABOR DEMAND					EMPLOYMENT PROBABILITY	
					ESTIMATED 1980 EMP.	PROJECTED 1990 EMP.	VOL. OF GROWTH	RATE OF GROWTH	ANN. AVG. JOB OPEN.	RANK 5/	GRADE 6/
Accountant and Auditor	160.167	1412	06.0201	8	344	372	28	8.1	15	20	C+
Accounting Clerk	216.482	4712	07.0101	5	354	362	8	2.3	16	28	C
Automotive Mechanic	620.261	6111	47.0604	7	499	538	39	7.8	17	13	B
Bartender	312.474	5212	12.0202	3	245	250	5	2.0	15	33	C-
Bookkeeper, Hand	210.382	4712	07.0103	4	359	376	17	4.7	17	22	C+
Carpenter	860.381	6422	46.0201	7	408	408	0	0.0	14	31	C-
Cashier	211.	4364	08.0604	3	673	782	109	16.2	36	5	A-
Cook, Short Order/Specialty Fast Food	313.	5214	20.0403	5	147	166	19	12.9	9	29	C
Cosmetologist/Women's Hairstylist	332.271	5253	12.0403	6	196	207	11	5.6	9	37	C-
Delivery and Route Worker	292.	8218	08.0799	2	588	620	32	5.4	18	12	B
Electrical and Electronic Assembler	VAR	7720	47.0105	4	241	264	23	9.5	9	26	C
Farm Laborer	421.687	561	01.0301	4	1,167	1,001	-166	-14.2	23	17	B-
Farmer (Owner or Tenant)	421.161	5512	01.0301	8	570	445	-125	-21.9	23	30	C
od Prep. and Serv. Wkr., Fast Food Rest.	311.477	5216	20.0406	3	413	586	173	41.9	38	6	B+
neral Clerk, Office	209.	4630	07.0705	2	1,081	1,096	15	1.4	44	9	B+
Guard and Doorkeeper	372.677	5144	43.0109	3	189	210	21	11.1	20	24	C+
Helper, Trades	VAR	86	VAR	VAR	287	299	12	4.2	10	31	C-
Inspector	VAR	782	15.0702	3	362	340	-22	-6.1	12	34	C-
Janitor, Porter and Cleaner	382.664	5244	20.0604	2	1,246	1,329	83	6.7	82	3	A-
Kitchen Helper	318.687	5219	20.0406	2	467	523	56	12.0	27	10	B
Lawyer	110.107	2110	22.0101	8	157	158	1	0.6	10	36	C-
Licensed Practical Nurse	079.374	3660	17.0605	6	311	372	61	19.6	22	14	B-
Maid, Servant, Private Household	301.137	505	20.0606	2	164	155	-9	-5.5	12	37	C-
Maintenance Repairer, General Utilities	899.381	6179	46.0401	7	378	397	19	5.0	12	21	C+
Manager, Restaurant, Coffee Shop, Etc.	187.167	1351	06.0704	7	164	183	19	11.6	9	29	C
Manager, Store	185.112	4030	06.1801	7	543	559	16	3.0	25	16	B-
Nurse Aide, Orderly	355.674	5236	17.0602	4	644	806	162	25.2	43	4	A-
Nurse, Professional	075.374	2900	18.1101	7	892	1,147	255	28.6	64	1	A
Production Packager	920.685	76687	VAR	2	671	697	26	3.9	25	11	B
Sales Clerk	290.477	43	08.0706	3	1,622	1,767	145	8.9	88	2	A
Secretary	201.362	4622	07.0601	6	1,127	1,317	190	16.9	71	1	A
Shipping Packer	920.587	4753	07.0708	3	305	304	-1	-0.3	9	35	C-
Stock Clerk, Stockroom, Warehouse, Etc.	222.367	4754	07.0708	5	429	450	21	4.9	16	18	C+
Supervisor, Nonworking	VAR	71	06.2001	7	807	773	-34	-4.2	21	19	C+
Teacher, Preschool and/or Elem. School	092.227	2310	13.1202	7	738	740	2	0.3	33	15	B-
Teacher, Secondary	091.227	2350	13.1205	7	772	666	-106	-13.7	9	27	C
Teller	211.362	4791	07.0205	5	227	251	24	10.6	10	25	C
Truck Driver	9046905	8213	49.0205	3	834	867	33	4.0	21	8	B+
Typist	203.582	4793	07.0701	4	482	486	4	0.8	18	23	C+
Waiter or Waitress	311.	5213	08.0905	3	592	664	72	12.2	28	7	B+

See footnotes on next page.

(Continued on next page)

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OCCUPATION	DOT CODE 1/	SOC CODE 2/	PRIMARY TRAINING PROGRAM CIP CODE 3/	SVP 4/	LABOR DEMAND: JOB SERVICE JOB OPENINGS (YEAR ENDING 8/84) NUMBER 5/	WAGE 6/ (HOURLY)	LONG-TERM: ESTIMATED 1980 EMP.	PROJECTED 1990 EMP.	VOL. OF GROWTH	RATE OF GROWTH	ANN. AVG. JOB OPEN.	EMPLOYMENT PROBABILITY: RANK 7/	GRADE 8/
Systems Analyst, EDP	012.167	1712	11.0501	7	80	$ 8.07	12,225	18,359	6,134	50.2	757	29	B+
Teacher, Adult Education	099.227	2390	13.1201	7	16	$ 7.52	6,285	7,538	1,253	19.9	366	82	C
Teacher Aide/Educational Assistant	249.367	4795	20.0205	3	1,111	$ 3.70	19,704	24,189	4,485	22.8	1,009	23	A-
Teacher, Preschool and/or Elem. School	092.227	2310	13.1202	7	333	$ 5.25	74,778	78,273	3,495	4.7	3,771	16	A-
Teacher, Secondary	091.227	2330	13.1205	7	5,890	$ 5.80	79,154	70,018	-9,136	-11.5	1,183	30	B-
Teacher, Vocational Ed. or Training	097.227	2390	13.1205	7	634	$ 5.86	6,338	7,504	1,166	18.4	284	91	C
Teller	211.362	4791	07.0205	5	608	$ 3.95	24,743	28,910	4,167	16.8	1,300	20	A-
Tester	VAR	783	47.0105	4	166	$ 3.51	7,652	7,591	-61	-0.8	300	125	C-
Travel Agent, Travel Accom. Appraiser	252.157	4369	08.1105	4	17	$ 4.56	2,089	3,384	1,295	62.0	247	98	C
Truck Driver	904.&905.	8213	49.0205	3	2,947	$ 5.36	81,220	86,181	4,961	6.1	2,285	13	A-
Typist	203.582	4793	07.0701	4	1,961	$ 4.33	53,170	57,263	4,093	7.7	2,469	15	A-
Vocational and Educational Counselor	045.	2400	13.1101	7	153	$ 6.38	7,618	8,515	897	11.8	322	91	C
Waiter or Waitress	311.	5213	08.0905	3	11,682	$ 3.66	72,448	86,692	14,244	19.7	6,121	6	A
Welder and Flamecutter	810.&819.	7714	48.0508	5	971	$ 6.38	38,287	38,291	4	0	873	34	B-
X-Ray Technician	078.362	3650	17.0207	6	15	$ 5.80	4,155	5,619	1,464	35.2	310	86	C

1/ Dictionary of Occupational Titles code. Where possible, occupational titles were given corresponding DOT codes based on information found in the Dictionary of Occupational Titles, Fourth Edition, 1977, U.S. Department of Labor.

2/ Standard Occupational Classification code. Occupational titles were given corresponding SOC codes based on information found in the Standard Occupational Classification Manual, 1980 Edition, U.S. Department of Commerce.

3/ Classification of Instructional Programs code. The CIP system is a coding system developed by the National Center for Education Statistics, U.S. Department of Education, which provides administrators and planners with a standard means of describing instructional programs. For the purposes of this report, the CIP system classifies occupations into instructional program areas associated with training for the occupation.

4/ Specific Vocational Preparation code. SVP denotes the training time required to learn the techniques, acquire information, and develop the facility needed for average performance in a specific job. The training may be acquired in a school, work, military, institutional, or vocational environment. Below are the SVP codes and the corresponding training time required.

2 - Anything beyond a short demonstration up to and including 30 days.
3 - Over 30 days up to and including 3 months.
4 - Over 3 months up to and including 6 months.
5 - Over 6 months up to and including 1 year.
6 - Over 1 year up to and including 2 years.
7 - Over 2 years up to and including 4 years.
8 - Over 4 years up to and including 10 years.

5/ Number of Job Service job openings received from local Office of Employment Security (OES) offices across the state for the one-year period ending August 1984. It is important to note that these figures represent only a small portion of the total job openings from any given area.

6/ Wage represents the average starting hourly wages for each occupation as reported on job orders received by local OES offices.

7/ The rank reflects the position of each occupation in terms of employability relative to the other occupations in the table. The lower the rank the higher the probability of employment. The rank is based on a composite score for each occupation resulting from independently ranking five occupational items, then summing the rankings for each occupation and creating a final composite rank. The five factors affecting employability are: estimated 1980 employment; projected 1990 employment; volume of growth in the number of new jobs 1980-1990; the rate of growth between 1980 and 1990; and the number of annual average total job openings projected for 1980-1990.

8/ The grading scheme is based on the rank assigned to each occupation. The top 15 percent are A to A-, the next 30 percent are B+ to B-, and the remaining 55 percent are C+ to C-. Since only the top 130 occupations appear in the table, the lowest grade assigned is a C-.

* Indicates that the number of Job Service job openings received in the one-year period ending August 1984 is less than 10.

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TABLE 8

PENNSYLVANIA

OCCUPATIONAL EMPLOYMENT PROBABILITY ASSESSMENT REPORT

RELATIVE RANKING AND GRADE
OF
TOP 150 OCCUPATIONS

The following list of the top 150 occupations in Pennsylvania for the 1980s contains occupations with a higher degree of potential employability based on a combination of the following factors: Current Employment (1980); Projected Employment (1990); Volume of Growth in number of new jobs; Rate of Employment Growth; and number of Annual average Job Openings. In fact, these 150 occupations account for 2/3 of total projected employment in Pennsylvania and nearly 3/4 of all annual average job openings for the 1980-1990 period.

OCCUPATION	DOT CODE 1/	SOC CODE 2/	PRIMARY TRAINING PROGRAM CIP CODE 3/	SVP 4/	LABOR DEMAND							EMPLOYMENT PROBABILITY	
					JOB SERVICE JOB OPENINGS (YEAR ENDING 6/84)		LONG-TERM						
					NUMBER 5/	WAGE 6/ HOURLY	ESTIMATED 1980 EMP.	PROJECTED 1990 EMP.	VOL. OF GROWTH	RATE OF GROWTH	ANN. AVG. JOB OPEN.	RANK 7/	GRADE 8/
Accountant and Auditor	160.167	1412	06.0701	8	239	$ 7.26	41,639	46,896	5,557	13.5	2,057	16	A-
Accounting Clerk	216.482	4712	07.0101	5	332	$ 4.87	37,545	39,238	1,693	4.5	1,778	26	B+
Assembler	VAR	7720	48.0503	3	2,824	$ 4.66	18,184	17,578	-606	-3.3	630	86	C
Assistant Professor	090.227	2200	13.1201	8	*	$ 7.76	8,460	8,651	191	2.3	225	116	C-
Associate Professor	090.227	2200	13.1201	8	*	$ 8.76	8,414	8,604	190	2.3	224	118	C-
Automotive Mechanic	620.261	6111	47.0604	7	1,115	$ 4.46	46,500	48,854	2,354	5.1	1,403	22	A-
Baker, Bread and/or Pastry	313.361	5214	20.0401	6	676	$ 4.85	3,572	4,282	710	19.9	230	114	C-
Barber	330.371	5252	12.0402	6	*	$ 3.52	7,305	7,443	138	1.9	315	110	C-
Bartender	312.474	5212	12.0202	3	505	$ 4.30	23,296	25,568	2,272	9.8	1,622	25	B+
Bookkeeper, Hand	210.382	4712	07.0103	6	768	$ 4.44	37,927	41,355	3,428	9.0	2,004	19	A-
Bookkeeping/Billing Machine Operator	210.382	4718	07.0104	5	14	$ 4.04	8,495	9,519	1,024	12.1	376	80	C+
Bus Driver	913.463	8215	49.0205	5	85	$ 4.60	14,492	14,666	174	1.2	698	76	C+
Bus Driver, School	913.463	8215	49.0205	5	86	$ 4.60	9,011	10,208	1,197	13.3	369	66	C+
Butcher and/or Meat Cutter	316.684	5217	48.0402	3	619	$ 4.69	12,300	13,028	728	5.9	550	73	C+
Buyer, Retail and/or Wholesale Trade	162.157	1442	08.0705	6	*	$ 5.50	11,787	12,584	797	6.8	676	70	C+
Carpenter	860.381	6422	46.0201	7	1,557	$ 6.14	45,020	44,999	-21	-0.1	1,316	46	B
Caseworker	195.107	2032	17.0407	7	150	$ 5.30	17,024	20,175	3,151	18.5	977	34	B+
Cashier	211.	4364	08.0404	3	4,369	$ 3.66	68,979	81,916	12,937	18.8	3,844	7	A
Chemist	022.061	1845	40.0501	8	41	$ 9.09	5,632	6,414	782	13.9	214	109	C-
Chief Executive, General Admin., Legis.	189.117	1120	06.0401	8	N/A	N/A	8,866	8,036	-830	-9.4	338	123	C-
Child Care Worker	355.674	5264	20.0202	3	592	$ 3.48	17,247	21,461	4,214	24.4	1,410	24	B+
Child Care Worker, Private Household	301.677	5040	20.0202	3	167	$ 3.43	17,561	18,404	843	4.8	1,138	52	B-
Civil Engineer	005.061	1628	14.0801	8	33	$ 8.06	7,342	7,799	457	6.2	301	105	C
Claims Adjuster	241.217	4782	08.1002	6	11	$ 7.21	5,068	6,016	948	18.7	267	103	C
Claims Clerk	241.362	4782	07.0203	4	12	$ 4.92	3,187	4,037	850	26.7	213	110	C-
Claims Examiner, Insurance	241.267	4782	08.1004	7	12	$ 5.57	3,623	4,993	1,370	37.8	308	87	C
Cleaner, Vehicle	919.687	8750	49.9999	2	153	$ 3.77	7,112	7,600	488	6.9	211	113	C-
Clergy	120.007	2042	39.0601	8	N/A	N/A	15,496	14,940	-556	-3.6	814	81	C
Clerical Supervisor	VAR	45	07.0401	6	N/A	N/A	22,749	24,690	1,941	8.5	996	36	B
Compressor and/or Injection Mold.Mach.Op.	556.682	7342	48.0604	5	447	$ 4.66	6,424	7,056	632	9.8	242	108	C-
Computer Operator	213.362	4612	07.0302	6	213	$ 4.99	11,771	17,232	5,461	46.4	716	33	B+
Computer Programmer	020.167	3971	11.0201	7	81	$ 8.87	12,762	15,985	3,223	25.3	489	44	B
Cook, Institutional	315.	5216	20.0403	6	366	$ 4.67	15,471	17,484	2,013	13.0	905	43	B
Cook, Restaurant	VAR	5214	20.0403	4	1,486	$ 4.44	15,710	19,199	3,489	22.2	1,094	31	B+
Cook, Short Order/Specialty Fast Food	313.	5214	20.0403	5	1,316	$ 3.74	17,729	20,826	3,097	17.5	1,133	30	B+
Correction Officer and/or Jailer	372.	5133	43.0102	3	79	$ 6.36	5,474	6,681	1,207	22.1	457	75	C+
Cosmetologist/Women's Hairstylist	332.271	5253	12.0403	6	109	$ 3.43	22,075	24,527	2,452	11.1	1,135	28	B+
Cost Estimator	160.267	1490	48.0101	7	59	$ 7.06	5,735	6,043	308	5.4	239	124	C-
Crane, Derrick, Hoist Operator	921.	8314	49.0203	6	39	$ 8.18	14,302	12,938	-1,364	-9.6	213	117	C-
Delivery and Route Worker	292.	8218	08.0799	2	339	$ 4.93	42,967	43,296	349	2.0	1,169	41	B
Dental Assistant	079.371	5232	17.0101	6	69	$ 3.88	6,352	9,971	3,619	57.0	444	47	B
Dental Hygienist	078.361	3630	17.0102	6	13	$ 7.24	2,391	3,743	1,352	56.6	260	96	C
Dentist	072.101	2620	18.0401	8	*	N/A	8,266	9,938	1,692	20.5	400	66	C+
Designer	142.061	3220	15.0102	8	85	$ 7.31	8,627	9,211	584	6.8	274	101	C
Desk Clerk	238.362	4643	08.0902	4	174	$ 3.88	2,969	3,747	778	26.2	333	113	C-
Diesel Mechanic	625.281	6112	47.0605	7	205	$ 6.15	8,924	9,978	1,054	11.8	375	76	C+
Dining Rm. Attendant, Bar Keeper, Etc.	311.677	5218	20.0499	2	1,633	$ 3.42	14,468	18,595	4,127	28.5	590	38	B
Drafter	017.261	3720	48.0101	7	338	$ 6.42	20,171	22,579	2,408	11.9	377	41	B
Drill Press/Boring Machine Operator	606.682	7518	48.0503	6	36	$ 6.23	9,223	9,467	244	2.7	278	107	C-
Electrical and Electronic Assembler	VAR	7720	47.0105	4	909	$ 4.97	16,168	17,211	1,043	6.5	341	59	B-
Electrical and Electronic Technician	003.161	3711	15.0302	7	170	$ 7.37	18,599	22,090	3,491	18.8	589	33	B
Electrical Engineer	003.061	1633	14.1001	8	73	$12.68	16,176	19,399	3,223	19.9	648	40	B
Electrician	824.261	613	46.0302	8	375	$ 6.18	29,171	29,556	385	1.3	837	48	B-
Farm Laborer	421.687	561	01.0301	6	2,133	$ 3.98	29,447	24,907	-4,540	-15.4	347	73	C+
Farmer (Owner or Tenant)	421.161	5512	01.0301	8	*	$ 6.00	32,000	25,000	-7,000	-21.9	1,270	62	B-
File Clerk	206.387	4696	07.0705	4	368	$ 4.13	12,683	14,239	1,556	12.3	601	51	B-
Filer, Grinder, Buffer, Chipper	705.	7755	48.0503	3	91	$ 5.42	9,355	9,624	269	2.9	328	102	C
Food Prep. and Serv. Wkr., Fast Food Rest.	311.477	5216	20.0406	3	4,297	$ 3.36	52,458	76,765	24,307	46.3	5,171	3	A
Gardener and Groundskeeper	406.	5622	01.0605	3	1,986	$ 3.85	19,640	21,326	1,686	8.5	1,360	39	B
General Clerk, Office	209.	4630	07.0705	2	7,623	$ 4.18	116,256	121,676	5,420	4.7	5,075	11	A

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OCCUPATION	DOT CODE 1/	SOC CODE 2/	PRIMARY TRAINING PROGRAM CIP CODE 3/	SVP 4/	LABOR DEMAND							EMPLOYMENT PROBABILITY	
					JOB SERVICE JOB OPENINGS (YEAR ENDING 9/84)		LONG-TERM						
					NUMBER 5/	WAGE 6/ HOURLY	ESTIMATED 1980 EMP.	PROJECTED 1990 EMP.	VOL. OF GROWTH	RATE OF GROWTH	ANN. AVG. JOB OPEN.	RANK 7/	GRADE 8/
Grinding/Abrading Machine Operator, Metal	603.	7522	48.0503	3	129	$ 6.24	9,933	9,957	24	0.2	255	112	C-
Group Recreation Worker	195.227	2032	20.0607	6	3,222	$ 3.52	6,439	7,458	1,019	15.8	294	93	C
Guard and Doorkeeper	372.667	5144	43.0109	3	1,937	$ 3.90	34,670	42,303	7,633	21.9	4,175	10	A
Heavy Equipment Operator	850.683	8317	49.0202	6	126	$ 7.73	22,808	24,276	1,468	6.4	676	42	B
Helper, Trades	VAR	86	VAR	VAR	N/A	N/A	33,190	34,983	1,793	5.4	1,277	29	B+
Highway Maintenance Worker	899.684	6479	46.9999	3	136	$ 3.62	11,352	10,339	-1,013	-8.9	269	119	C-
Host/Hostess, Rest., Lounge, Coffee Shop	310.137	5211	20.0499	6	210	$ 3.34	5,288	6,892	1,604	30.3	366	77	C+
Housekeeper, Hotel and Motel	321.137	5241	20.0601	6	169	$ 4.21	5,905	7,765	1,860	31.5	547	65	C+
Housekeeper, Private Household	301.137	505	20.0605	6	64	$ 3.75	3,867	4,466	599	15.5	624	104	C
Industrial Engineer	012.167	1634	14.1701	8	70	$ 9.90	9,581	10,813	1,232	12.9	334	74	C+
Industrial Truck Operator	921.683	8318	49.0203	3	316	$ 6.02	24,266	24,096	-170	-0.7	626	73	C+
Inspector	VAR	787	15.0702	3	750	$ 6.15	26,759	26,737	-22	-0.1	1,069	37	B-
Insurance Clerk, Medical	214.362	4784	07.0605	5	*	$ 5.27	3,177	4,354	1,177	37.1	261	99	C
Janitor, Porter and Cleaner	382.664	5244	20.0604	2	15,959	$ 3.56	142,028	159,848	17,820	12.6	10,631	3	A
Kitchen Helper	318.687	5219	20.0606	2	1,821	$ 3.32	50,403	59,506	9,103	18.1	3,260	5	A
Lathe Machine Operator, Metal	604.	7512	48.0503	6	187	$ 6.00	11,595	12,248	653	5.6	365	83	C
Lawyer	110.107	2110	22.0101	8	*	N/A	20,037	22,004	1,967	9.8	1,463	32	B+
Librarian	100.127	2310	25.0601	7	10	$ 6.76	7,888	7,938	50	0.6	330	117	C-
Licensed Practical Nurse	079.374	3660	17.0605	6	1,260	$ 6.96	28,348	35,674	7,326	25.8	2,305	12	A
Machine Assembler	638.361	6178	47.0303	6	*	$ 5.03	11,169	11,944	775	6.9	394	79	C+
Machine Tool Operator, Combination	601.280	7519	48.0503	7	161	$ 6.99	10,693	11,092	399	3.7	301	97	C
Machinist	600.280	6813	48.0503	7	524	$ 6.64	16,347	16,613	266	1.6	303	76	C+
Maid, Servant, Private Household	301.137	505	20.0606	2	1,623	$ 4.90	31,336	30,111	-1,225	-3.9	1,367	63	C+
Maintenance Mechanic	638.281	6111	47.0302	7	507	$ 7.33	23,435	23,655	220	0.9	693	60	B-
Maintenance Repairer, General Utilities	899.381	6179	46.0401	7	2,466	$ 5.71	40,736	44,275	3,539	8.7	1,493	18	A-
Manager, Restaurant, Coffee Shop, Etc.	187.167	1351	06.0704	7	132	$ 5.45	20,953	23,495	2,542	12.1	1,176	29	B+
Manager, Store	185.117	4030	06.1801	7	*	$ 5.96	33,200	34,505	1,305	3.9	2,334	23	B+
Mechanical Engineer	007.061	1635	14.1901	8	103	$10.60	13,957	15,831	1,874	13.4	549	49	B-
Medical Assistant	079.367	5233	17.0503	6	18	$ 3.89	5,215	7,631	2,416	46.3	477	64	C+
Medical Lab Assistant	078.381	3690	17.0305	6	*	$ 6.74	3,593	4,871	1,278	35.6	260	95	C
Medical Lab Technologist	078.381	3620	17.0309	7	11	$ 4.88	4,274	5,593	1,319	30.9	285	89	C
Musician, Instrumental	152.041	3230	50.0903	8	*	N/A	4,665	5,218	553	11.9	246	115	C-
Nurse Aide, Orderly	355.674	5236	17.0602	5	1,551	$ 4.03	59,787	78,713	18,926	31.7	4,626	4	A
Nurse, Professional	075.374	2900	18.1101	7	925	$ 7.92	80,522	106,601	26,079	32.4	6,051	1	A
Order Clerk	249.367	4666	07.0706	4	337	$ 4.44	15,366	16,490	1,124	7.3	798	55	B-
Order Filler	222.487	4756	07.0708	3	27	$ 5.39	18,033	18,367	334	1.9	357	78	C+
Painter, Maintenance	840.381	6442	46.0408	7	367	$ 4.89	16,449	14,991	-1,458	-8.9	328	92	C
Pantry, Sandwich and/or Coffee Maker	317.684	5217	20.0406	2	258	$ 3.60	4,446	5,592	1,146	25.8	328	94	C
Paralegal Personnel	119.267	3960	22.0103	7	*	$ 7.91	2,008	4,284	2,276	113.4	421	78	C+
Payroll/Timekeeping Clerk	215.	4713	07.0199	3	149	$ 4.81	12,386	13,339	953	7.6	546	67	C+
Personnel Clerk	209.362	4692	07.0503	4	26	$ 5.26	4,662	4,914	252	5.4	216	128	C-
Personnel, Labor Relations Specialist	166.	1430	06.1601	7	*	N/A	14,037	15,008	971	6.9	479	66	C+
Pharmacist	074.161	3010	18.1401	7	15	$ 8.86	6,168	6,538	370	6.0	465	107	C-
Physician and/or Surgeon	070.	2610	18.1001	8	*	N/A	23,082	29,873	6,791	29.4	1,084	17	A-
Plumber and/or Pipefitter	862.381	6450	46.0501	7	332	$ 6.63	21,928	21,890	-38	-0.2	672	66	C+
Postal Mail Carrier	230.367	4743	07.0799	2	*	$ 7.18	24,920	24,067	-853	-3.4	384	77	C+
Production Clerk	221.382	4752	07.0708	4	43	$ 4.38	13,277	13,654	377	2.8	356	85	C
Production Packager	920.685	76687	VAR	2	159	$ 4.87	45,214	45,221	7	0	1,634	45	B
Psychiatric Aide	355.377	5236	17.0403	4	23	$ 4.57	7,409	9,573	2,164	29.2	337	58	B-
Public Admin. Inspector, Exc. Const.	168.267	1473	44.0401	7	N/A	N/A	7,192	6,619	-573	-8.0	339	129	C-
Purchasing Agent and/or Buyer	162.157	1449	08.0704	7	66	$ 7.92	11,048	11,462	414	3.8	364	90	C
Receptionist	237.367	4645	07.0707	3	621	$ 4.01	13,651	17,462	3,811	27.9	1,033	36	B+
Refrigeration Mech., A/C Mechanic	637.381	6160	15.0501	6	136	$ 5.68	7,668	7,836	168	2.2	236	121	C-
Sales Agent, Sales Rep., Insurance	250.257	4122	08.1006	6	227	$ 4.90	18,042	19,504	1,462	8.1	792	44	B
Sales Agent, Sales Rep., Real Estate	250.357	4123	08.1701	5	11	$ 3.66	12,964	12,567	-397	-3.1	735	68	C
Sales Agent, Sales Rep., Securities	251.157	4124	08.0606	7	11	$ 4.53	3,206	3,587	381	11.9	211	126	C-
Sales Clerk	290.477	43	08.0706	3	8,115	$ 3.40	165,294	175,281	9,987	6.0	8,304	6	A
Sales Manager, Retail Trade	185.167	1240	06.0101	7	221	$ 6.26	12,515	13,917	1,402	11.2	476	61	B-
School Crossing Guard	371.567	5142	43.0109	2	10	$ 3.99	5,671	5,318	-353	-6.2	617	128	C-
Secretary	201.362	4622	07.0601	6	1,562	$ 4.64	122,834	152,304	29,470	24.0	8,751	2	A
Sewing Machine Op., Reg. Eqmt., Garment	786.	7655	20.0301	3	N/A	N/A	65,411	54,313	-11,098	-17.0	1,369	33	B-
Sewing Machine Op., Reg. Eq., Nongarment	787.	7655	20.0303	4	N/A	N/A	9,036	7,843	-1,193	-13.2	231	127	C-
Sheet Metal Worker/Tinsmith	804.281	6824	48.0306	7	714	$ 5.78	8,877	8,982	105	1.2	223	120	C-
Shipping and Receiving Clerk	222.387	4753	07.0708	3	328	$ 4.45	18,822	19,689	867	4.6	633	56	B-
Shipping Packer	920.587	4755	07.0708	3	2,931	$ 4.35	21,355	21,615	260	1.2	638	63	C+
Social Service Aide	195.367	2032	17.0405	5	26	$ 4.41	4,452	6,330	1,878	42.2	441	72	C+
Speech and Hearing Clinician	076.107	3036	17.0821	7	*	$ 6.65	2,819	4,108	1,289	45.7	231	100	C
Statistical Clerk	216.382	4794	07.0199	4	18	$ 4.22	4,606	5,040	434	9.4	226	122	C-
Stenographer	202.362	4623	07.0607	5	66	$ 5.29	16,091	13,783	-2,308	-14.3	331	106	C
Stock Clerk, Sales Floor	299.367	4362	08.0604	4	1,025	$ 3.43	24,253	27,152	2,899	11.9	747	77	B+
Stock Clerk, Stockroom, Warehouse, Etc.	222.387	4754	07.0708	3	4,905	$ 3.77	35,216	37,845	2,629	7.5	1,639	21	A-
Supervisor, Nonworking	VAR	71	06.2001	7	N/A	N/A	78,431	78,764	333	0.4	2,436	37	B
Supervisor, Nonworking, Service	VAR	5211	08.9999	6	N/A	N/A	8,078	9,483	1,405	17.4	411	71	C+
Switchboard Operator	235.662	4732	07.0707	3	125	$ 4.39	7,980	8,151	171	2.1	338	111	C-
Switchboard Operator/Receptionist	235.662	4732	07.0707	4	N/A	N/A	8,431	9,652	1,221	14.5	521	69	C+

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TES:

Dictionary of Occupational Titles code. Where possible, occupational titles were given corresponding DOT codes based on information found in the Dictionary of Occupational Titles, Fourth Edition, 1977, U.S. Department of Labor.

2/ Standard Occupational Classification code. Occupational titles were given corresponding SOC codes based on information found in the Standard Occupational Classification Manual, 1980 Edition, U.S. Department of Commerce.

3/ Classification of Instructional Programs code. The CIP system is a coding system developed by the National Center for Education Statistics, U.S. Department of Education, which provides administrators and planners with a standard means of describing instructional programs. For the purposes of this report, the CIP system classifies occupations into instructional program areas associated with training for the occupation.

4/ Specific Vocational Preparation code. SVP denotes the training time required to learn the techniques, acquire information, and develop the facility needed for average performance in a specific job. The training may be acquired in a school, work, military, institutional, or vocational environment. Below are the SVP codes and the corresponding training time required.

2 - Anything beyond a short demonstration up to and including 30 days.
3 - Over 30 days up to and including 3 months.
4 - Over 3 months up to and including 6 months.
5 - Over 6 months up to and including 1 year.
6 - Over 1 year up to and including 2 years.
7 - Over 2 years up to and including 4 years.
8 - Over 4 years up to and including 10 years.

5/ The rank reflects the position of each occupation in terms of employability relative to the other occupations in the table. The lower the rank the higher the probability of employment. The rank is based on a composite score for each occupation resulting from independently ranking five occupational items, then summing the rankings for each occupation and creating a final composite rank. The five factors affecting employability are: estimated 1980 employment; projected 1990 employment; volume of growth in the number of new jobs 1980-1990; the rate of growth between 1980 and 1990; and the number of annual average total job openings projected for 1980-1990.

6/ The grading scheme is based on the rank assigned to each occupation. The top 15 percent are A to A-, the next 30 percent are B+ to B-, and the remaining 55 percent are C+ to C-. Since only the top 40 occupations appear in the table, the lowest grade assigned is a C-.

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TABLE 9

Cooperating Agencies:

Name: Divine Providence Hospital
Address: 1100 Grampian Boulevard Williamsport, PA 17701
Administrator: Sister Jean Mohl
Nursing Service Admin.: Nancy Bergesen
Accrediting/Approval Agency: JCAH
Date of Last Visit: 8/86
Clinical Experience In: 6 areas
Length of Clinical Experience: To be determined
# of Students Per Rotation: 12:1
# of Rotations: 1 per area
Number of Affiliating Students from Other Schools: 20

Medical	Surgical	Mothers	Newborn	Pediatric	Psychiatric	Other
Med-Surg 59.4		6.5	6.5	3	18	Ortho. 17.4

Name: Lysock View
Address: RD 2 Montoursville, PA 17754
Administrator: Joanne Krezmer
Nursing Service Admin.: Shirley Ferreri
Accrediting/Approval Agency: Med. Asst./Health Dpt.
Date of Last Visit: 2/87, 6/87
Clinical Experience In: 2 areas
Length of Clinical Experience: To be determined
# of Students Per Rotation: 12:1
# of Rotations: 1 per area
Number of Affiliating Students from Other Schools: 0

Medical	Surgical	Mothers	Newborn	Pediatric	Psychiatric	Other
	Skilled and non-skilled					205

Name: The Williamsport Hospital & Medical Center
Address: 777 Rural Avenue Williamsport, PA 17701
Administrator: Donald Creamer
Nursing Service Admin.: Sandra Olson
Accrediting/Approval Agency: JCAH
Date of Last Visit: 1986
Clinical Experience In: 5 areas
Length of Clinical Experience: To be determined
# of Students Per Rotation: 12:1
# of Rotations: 1 per area
Number of Affiliating Students from Other Schools: 20

Medical	Surgical	Mothers	Newborn	Pediatric	Psychiatric	Other
Med-Surg 130		12	9	8	9	

Name:
Address:
Administrator:
Nursing Service Admin.:
Accrediting/Approval Agency:
Date of Last Visit:
Clinical Experience In:
Length of Clinical Experience:
# of Students Per Rotation:
# of Rotations:
Number of Affiliating Students from Other Schools:

Name:
Address:
Administrator:
Nursing Service Admin.:
Accrediting/Approval Agency:
Date of Last Visit:
Clinical Experience In:
Length of Clinical Experience:
# of Students Per Rotation
# of Rotations
Number of Affiliating Students from Other Schools:

If necessary, use additional pages.

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APPENDIX A

1100 Grampian Boulevard • Williamsport, PA 17701 • (717) 326-8181

April 21, 1987

Dr. Robert L. Breuder
President
The Williamsport Area Community College
1005 West Third Street
Williamsport, PA 17701

Dear Dr. Breuder:

Sometime ago the Chief Executive Officers and the Directors of Nursing Service of a few of our hospitals (Lock Haven, Jersey Shore, Renovo, Muncy and Divine Providence) met to discuss the issue of the nursing shortage that we face now and will continue to face in the future.

Among other topics, the idea that The Williamsport Area Community College was possibly considering an Associate Degree Nursing Program was discussed. This is certainly a matter of great interest to us especially as it addresses the preparation of nurses who, more than likely, will remain in the area.

We would be very much interested in an opportunity to meet with you to discuss the Associate Degree Nurse and the experience we have had, both positive and not so positive, once this particular nurse joins the hospital staff.

Please feel free to contact me if you have any questions regarding this issue. We look forward to hearing from you.

Sincerely,

Sister Jean Mohl

Sister Jean Mohl
President

SJM/mm

cc: Members of the Williamsport Area Hospital Council
    Lock Haven Hospital
    Jersey Shore Hospital
    Muncy Valley Hospital
    Bucktail Medical Center
    The Williamsport Hospital & Medical Center
    Soldiers and Sailors Memorial Hospital

DIVINE PROVIDENCE HOSPITAL

The Williamsport Hospital & Medical Center

CHARLES J. STOCKWELL
Chairman of the Board

DONALD R. CREAMER
President

777 Rural Avenue Williamsport, PA 17701-3198 • 717/321-1000

September 11, 1987

Robert L. Breuder
President
Williamsport Area Community College
1005 West Third Street
Williamsport, PA 17701

Dear Bob:

I am writing this letter in my capacity as Chairman of the North Central Regional Council of the Hospital Association of Pennsylvania.

The issue of nursing supply and the recruitment of other health professionals was an agenda topic at the Council's meeting on September 10, 1987. Ms. Helen F. Heidelbaugh, R.N., Director of Nursing Services for the Hospital Association of Pennsylvania, reviewed with the Council a variety of activities at the state and regional level directed at increasing the supply of nurses as well as the retention of existing professionals in light of the impending shortage of nurse professionals in the region and throughout the state.

I shared with the Council the discussions that we have had concerning the feasibility study you have initiated relative to the development of an Associate Degree program in nursing at the Williamsport Area Community College. The members of the Council were enthusiastic with respect to the prospect for this program and the positive impact the graduates of such a program might have on the growing need for nursing professionals in our region.

I have been asked by the members of the Council to inform you that, by unanimous vote, the Council supports the concept of the development of an Associate Degree program in nursing at the Williamsport Area Community College. I have enclosed a list of Council members for your reference. The Council is prepared to work cooperatively with you in support of the feasibility study and, hopefully, the initiation of an Associate Degree program by your institution.

"A commitment to excellence"

Please let me know if the North Central Regional Council of the Hospital Association of Pennsylvania can be of any assistance to you with regard to this matter.

Personal regards.

Sincerely,

Donald R. Creamer
President

DRC/crw
enclosure
cc: Council Members
Joanne M. Coolen
Debra A. Wendel
Helen F. Heidelbaugh, R.N.

NORTH CENTRAL REGIONAL COUNCIL
OF
THE HOSPITAL ASSOCIATION OF PENNSYLVANIA

Mr. Terance P. John
President
BERWICK HOSPITAL
701 East 16th Street
Berwick, PA 18603

Mr. Robert R. Stanley
Administrator
J.C. BLAIR MEMORIAL HOSPITAL
Warm Springs Avenue
Huntingdon, PA 16652

Mr. Robert Spinelli
Administrator
THE BLOOMSBURG HOSPITAL
549 Fair Street
Bloomsburg, PA 17815

Ms. Susan M. Cannon
Administrator
THE BUCKTAIL MEDICAL CENTER
Pine Street
Renovo, PA 17764

Mr. John E. Branigan
Executive Director
CENTRE COMMUNITY HOSPITAL
1800 E. Park Avenue
State College, PA 16803

Sister Jean Mohl
President
DIVINE PROVIDENCE HOSPITAL
1100 Grampian Boulevard
Williamsport, PA 17701

Mr. Peter W. Monge
Chief Executive Officer
DuBOIS REGIONAL MEDICAL CENTER
P.O. Box 447
DuBois, PA 15801

Mr. Michael Daniloff
President
EVANGELICAL COMMUNITY HOSPITAL
One Hospital Drive
Lewisburg, PA 17837

Mr. John Evans
Administrative Director
of Operations
GEISINGER MEDICAL CENTER
North Academy Avenue
Danville, PA 17822

Mr. Thomas S. Lawton, Jr.
Executive Director
JERSEY SHORE HOSPITAL
Thompson Street
Jersey Shore, PA 17740

Mr. William H. DeWire
President and Chief
Executive Officer
LEWISTOWN HOSPITAL
Highland Avenue
Lewistown, PA 17044

Mr. Albert W. Speth
President
LOCK HAVEN HOSPITAL
24 Cree Drive
Lock Haven, PA 17745

George J. Geib, CPA
Acting Chief Executive Officer
MUNCY VALLEY HOSPITAL
215 East Water Street
Muncy, PA 17756

Mr. John J. Razem
Interim Administrator
PHILIPSBURG STATE GENERAL HOSPITAL
Philipsburg, PA 16866

Mr. Dennis C. Falck
Administrator
REHAB HOSPITAL FOR SPECIAL SERVICES
OF NITTANY VALLEY
R.D. 5, Box 451-A
Bellefonte, PA 16823

Mr. Robert D. Greco
Administrator
SHAMOKIN STATE GENERAL HOSPITAL
R.D. 2
Shamokin, PA 17872

Mr. Robert H. Morris
Executive Director
SOLDIERS AND SAILORS MEMORIAL HOSPITAL
32-36 Central Avenue
Wellsboro, PA 16901

Mr. Nicholas A. Prisco
Chief Executive Officer
SUNBURY COMMUNITY HOSPITAL
350 North 11th Street
Sunbury, PA 17801-0737

Mr. Donald R. Creamer
President
THE WILLIAMSPORT HOSPITAL
777 Rural Avenue
Williamsport, PA 17701-3198

/vlg
Revised 8/14/87

11/86

The Williamsport Area Community College
Organizational Chart
Fall 1986
Office of Dean of Academic Affairs

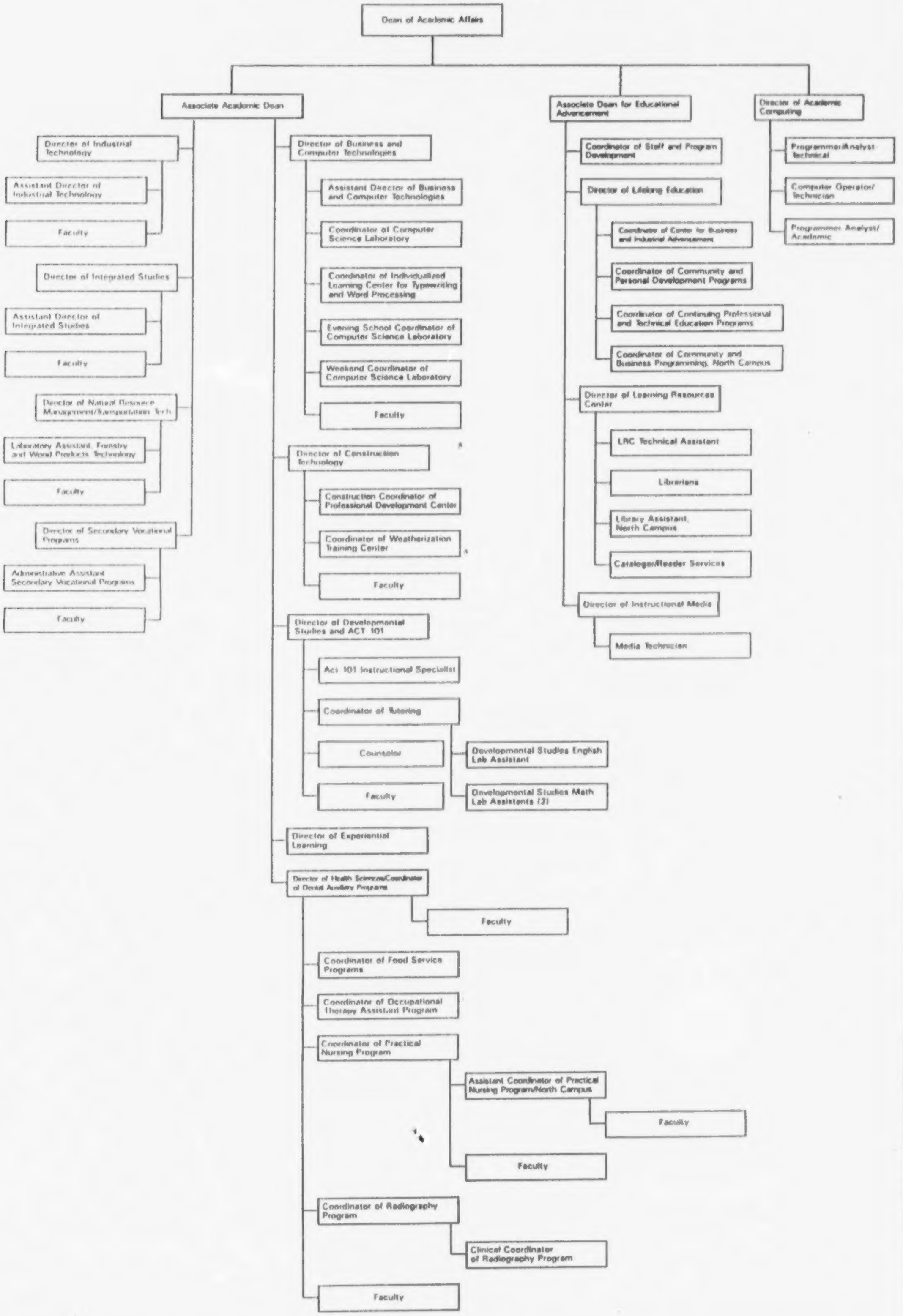
Dean of Academic Affairs
Associate Academic Dean
Director of Industrial Technology
Assistant Director of Industrial Technology
Faculty
Director of Integrated Studies
Assistant Director of Integrated Studies
Faculty
Director of Natural Resource Management/Transportation Tech
Laboratory Assistant, Forestry and Wood Products Technology
Faculty
Director of Secondary Vocational Programs
Administrative Assistant Secondary Vocational Programs
Faculty
Director of Business and Computer Technologies
Assistant Director of Business and Computer Technologies
Coordinator of Computer Science Laboratory
Coordinator of Individualized Learning Center for Typewriting and Word Processing
Evening School Coordinator of Computer Science Laboratory
Weekend Coordinator of Computer Science Laboratory
Faculty
Director of Construction Technology
Construction Coordinator of Professional Development Center
Coordinator of Weatherization Training Center
Faculty
Director of Developmental Studies and ACT 101
Act 101 Instructional Specialist
Coordinator of Tutoring
Counselor
Faculty
Developmental Studies English Lab Assistant
Developmental Studies Math Lab Assistants (2)
Director of Experiential Learning
Director of Health Sciences/Coordinator of Dental Auxiliary Programs
Faculty
Coordinator of Food Service Programs
Coordinator of Occupational Therapy Assistant Program
Coordinator of Practical Nursing Program
Assistant Coordinator of Practical Nursing Program/North Campus
Faculty
Faculty
Coordinator of Radiography Program
Clinical Coordinator of Radiography Program
Faculty
Associate Dean for Educational Advancement
Coordinator of Staff and Program Development
Director of Lifelong Education
Coordinator of Center for Business and Industrial Advancement
Coordinator of Community and Personal Development Programs
Coordinator of Continuing Professional and Technical Education Programs
Coordinator of Community and Business Programming, North Campus
Director of Learning Resources Center
LRC Technical Assistant
Librarians
Library Assistant, North Campus
Cataloger/Reader Services
Director of Instructional Media
Media Technician
Director of Academic Computing
Programmer/Analyst-Technical
Computer Operator/Technician
Programmer Analyst/Academic

Chart I-3

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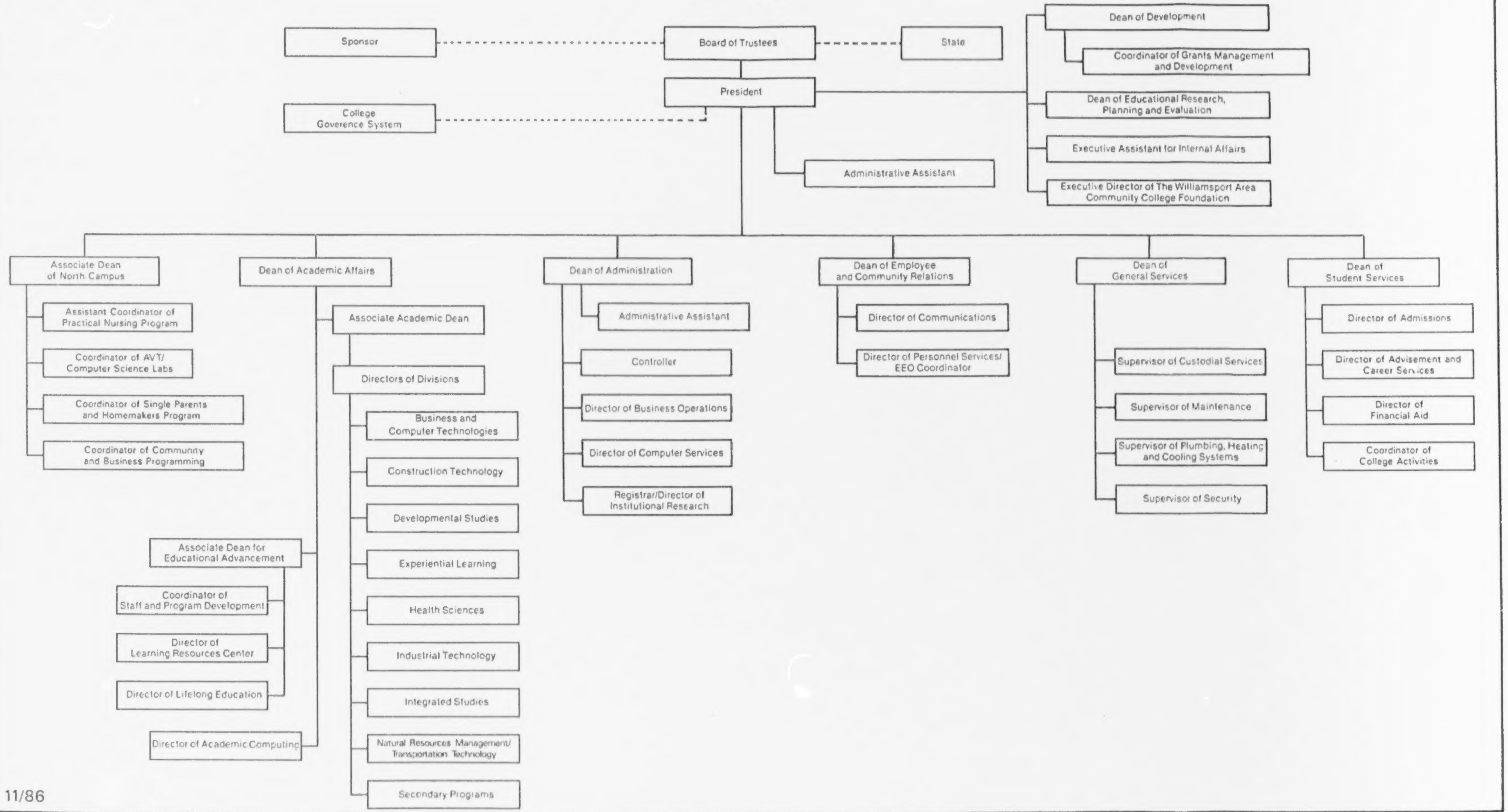
The Williamsport Area Community College
Organizational Chart
Fall 1986


Sponsor
Board of Trustees
State
President
College Goverence System
Dean of Development
Coordinator of Grants Management and Development
Dean of Educational Research, Planning and Evaluation
Executive Assistant for Internal Affairs
Executive Director of The Williamsport Area Community College Foundation
Administrative Assistant
Associate Dean of North Campus
Assistant Coordinator of Practical Nursing Program
Coordinator of AVT/ Computer Science Labs
Coordinator of Single Parents and Homemakers Program
Coordinator of Community and Business Programming
Dean of Academic Affairs
Associate Academic Dean
Directors of Divisions
Business and Computer Technologies
Construction Technology
Developmental Studies
Experiential Learning
Health Sciences
Industrial Technology
Integrated Studies
Natural Resources Management/ Transportation Technology
Secondary Programs
Associate Dean for Educational Advancement
Coordinator of Staff and Program Development
Director of Learning Resources Center
Director of Lifelong Education
Director of Academic Computing
Dean of Administration
Administrative Assistant
Controller
Director of Business Operations
Director of Computer Services
Registrar/Director of Institutional Research
Dean of Employee and Community Relations
Director of Communications
Director of Personnel Services/ EEO Coordinator
Dean of General Services
Supervisor of Custodial Services
Supervisor of Maintenance
Supervisor of Plumbing, Heating and Cooling Systems
Supervisor of Security
Dean of Student Services
Director of Admissions
Director of Advisement and Career Services
Director of Financial Aid
Coordinator of College Activities

11/86

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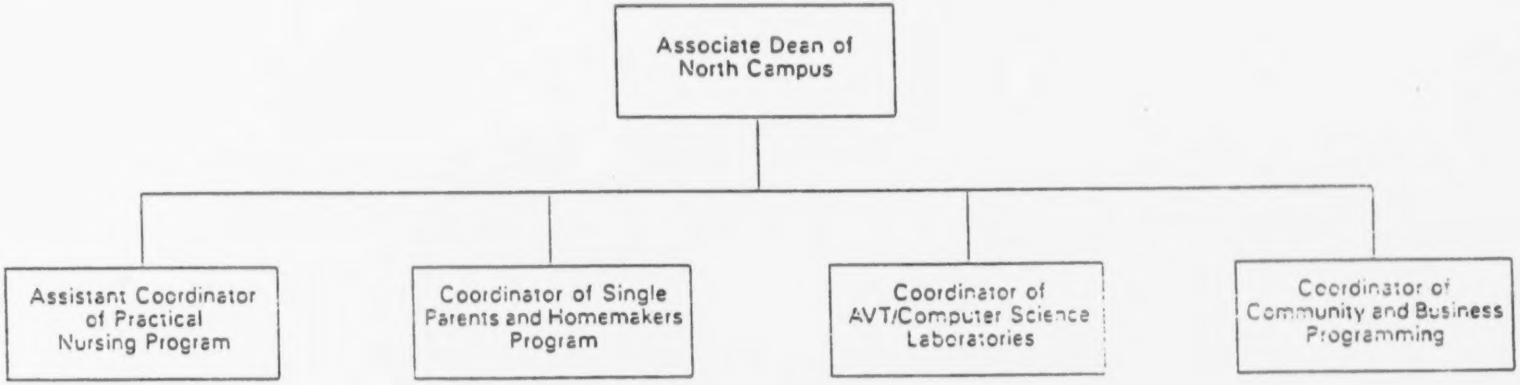
The Williamsport Area Community College
Organizational Chart
Fall 1986

Office of Associate Dean of North Campus


Associate Dean of North Campus
Assistant Coordinator of Practical Nursing Program
Coordinator of Single Parents and Homemakers Program
Coordinator of AVT/Computer Science Laboratories
Coordinator of Community and Business Programming

11 86

1-29

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM
NEEDS ASSESSMENT

Instructions: Please respond to each of the following questions as they relate to your entire organization.

1. How many RN's do you currently employ?
   1,347 fulltime 315 parttime

2. In the next year the number of RN's employed at this facility will
   11 increase 3 decrease

3. In the next five years the number of RN's employed at this facility will
   11 increase 1 decrease (2 same)

4. Are you experiencing difficulty in filling RN vacancies?
   14 yes 1 no

5. How many RN positions are currently budgeted but not filled?
   78 fulltime 49 parttime

6. How many LPN's do you currently employ?
   517 fulltime 198 parttime

7. Are you experiencing difficulty in filling LPN vacancies?
   9 yes 6 no

8. How many LPN positions are currently budgeted but not filled?
   4 fulltime 16 parttime

9. Would you hire an RN from an associate degree program?
   14 yes 0 no

10. Would you encourage current LPN's to upgrade their degree to an Associate Degree Nurse?
    14 yes 0 no (1 maybe)

    If yes, how many? 36

CONTINUED ON BACK

11. Has insufficient numbers of nrusing personnel resulted in beds/units/or floors of your facility being temporarily closed within the last six months?
2 yes 13 no

If yes, how often has this happened in the last six months?
2-3

12. What is the entry level salary for each of the following RN education levels:
Bachelor's of Science $9.198 (average)
Diploma $9.164 (average)
Associate Degree $9.198 (average)

13. What is the entry level salary for LPNs? $6.50 (average)

Please return this questionnaire in the enclosed envelope by September 11, 1987 or mail to:

Dr. Jeannette L. Fraser
Educational Research, Planning, & Evaluation
The Williamsport Area Community College
1005 West Third Street
Williamsport, PA 17701

THE WILLIAMSPORT AREA COMMUNITY COLLEGE

Practical Nursing Program

Hospitals Surveyed

The Williamsport Hospital and Medical Center
777 Rural Avenue
Williamsport, Pennsylvnia 17701

Divine Providence Hospital
1100 Grampian Boulevard
Williamsport, Pennsylvania 17701

Lysock View
R.D. #2
Montoursville, Pennsylvania 17754

Muncy Valley Hospital
215 East Water Street
Muncy, Pennsylvania 17756

Berwick Hospital Corporation
701 East Sixteenth Street
Berwick, Pennsylvania 18603

Bloomsburg Community Hospital
549 East Fair Street
Bloomsburg, Pennsylvania 17815

Geisinger Medical Center
North Academy Street
Danville, Pennsylvania 17822

Evangelical Community Hospital
One Hospital Drive
Lewisburg, Pennsylvania 17837

Center Community Hospital
1800 East Park Street
State College, Pennsylvania 16803

Lock Haven Hospital and Extended Care Unit
24 Cree Drive
Lock Haven, Pennsylvania 17745

Jersey Shore Hospital
Thompson Street
Jersey Shore, Pennsylvania 17740

Kramm Nursing Home
245 East Eighth Street
Watsontown, Pennsylvania 17777

Leader Nursing and Rehabilitation Center - South
101 Leader Drive
Williamsport, Pennsylvania 17701

Leader Nursing and Rehabilitation Center - North
300 Leader Drive
Williamsport, Pennsylvania 17701

Leader Nursing and Rehabilitation Center - Jersey Shore
Thompson Street and Kerr Avenue
Jersey Shore, Pennsylvania 17740

Sycamore Manor Nursing Home
R.D. #3, 1445 Sycamore Road
Montoursville, Pennsylvania 17754

The Williamsport Home
1900 Ravine Road
Williamsport, Pennsylvania 17701

Muncy Valley Hospital SNF
215 East Water Street
Muncy, Pennsylvania 17756

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM
NEEDS ASSESSMENT

SURVEY OF STUDENTS ANTICIPATING NURSING AS A CAREER

High School ____________________ Year of Graduation ______

1. As a potential nursing student, which level of nursing are you planning to pursue?

   4 Nurses Aide

   1 Licensed Practical Nurse (LPN)

   40 Registered Nurse (RN)

2. The Williamsport Area Community College is considering offering a two year Associate Degree in Nursing Program. Graduates will be Registered Nurses. Would you consider attending this program?

   24 yes 4 no 17 uncertain

   If no, why not? "School is too close to home." "Need more information." "I'm not planning to be an R.N." "I want a B.S.N."

3. Optional: Would you be interested in receiving information on the Associate Degree Nursing program, when it is available?

   41 yes 4 no

   If yes, please complete:

   Name ____________________

   Address ____________________

   ____

   Phone ____________________

Please return this questionnaire to your guidance counselor or mail to:

Dr. Jeannette L. Fraser
Educational Research, Planning, & Evaluation
The Williamsport Area Community College
1005 West Third Street
Williamsport, PA 17701

THE WILLIAMSPORT AREA COMMUNITY COLLEGE

Practical Nursing Program

High Schools

Athens Area High School

Bald Eagle Nittany High School

Benton Area Junior/Senior High School

Bishop Neumann High School

Bucktail Area High School

Canton Area Junior/Senior High School *

Cowanesque Valley High School

Danville High School *

Elkland High School

Galeton Area Junior/Senior High School *

Hughesville High School *

Jersey Shore High School

Lock Haven Senior High School

Lewisburg High School

Liberty High School

Line Mountain High School

Lourdes Regional High School

Loyalsock High School

Mansfield Junior/Senior High School

Middleburg Junior Senior High School *

Mifflinburg Area High School *

Millville Senior High School *

Milton High School

Montgomery Senior High School

Montoursville High School *

Mount Carmel High School

Muncy Junior/Senior High School

North Penn Senior High School

Northeast Bradford High School

Northern Potter Junior/Senior High School

Sayre Area High School

Shikellamy High School *

Selinsgrove Junior/Senior High School *

Shamokin High School

South Williamsport High School

Sugar Valley Senior High School *

Sullivan County High School

Sun Area Vocational-Technical School

Towanda Area High School *

Troy Area High School

Warrior Run Senior High School

Wellsboro Area Senior High School

West Snyder High School

Williamson High School

Williamsport Area High School

Wyalusing Area High School *

* = Response

NAME (optional): ______________________________

YEAR OF.GRADUATION: ______________________________

PLACE AN "X" ON THE LINE:

1. If the College were to offer an Associate Degree Nursing Program (ADN) leading to licensure as a Registered Nurse, would you be interested in pursuing such a degree?

   106 YES   17 NO   (3 no response)

2. If so, would you attend full time or part time?

   49 FULL TIME   56 PART TIME   (21 no response)

3. Would you like to attend classes during the:

   77 DAYS   25 EVENINGS   71 WEEKENDS   (17 no response)

4. What is your time-frame for completion of the program?

   14 2 SEMESTERS   49 4 SEMESTERS   (32 no response)

   20 3 SEMESTERS   11 MORE THAN 4 SEMESTERS

5. Are you currently working?

   117 YES   8 NO   (1 no response)

   Major area (nursing home, hospital, doctor's office, etc.)

   97 institutions, 14 private practice, 2 home health, 1 other, 12 no respons

6. Would you continue to work while attending the College? (Check all that apply.)

   81 YES   34 FULL TIME

   10 NO   39 PART TIME

   22 UNCERTAIN   (14 no response)

7. While you were in the Practical Nursing Program, which course(s) were the most useful?

   Various answers depending on the individual.

(over)

8. Which course(s) were least useful to you?

Nutrition, English Composition I, Psychology, General Elective

9. What would you like to see added to the curriculum?

Pharamcology as a separate course.

More clinic time, more science, Psychology, legal aspects.

If you would be interested in receiving further information about the program as it is developed, please complete the following.

NAME ____________________

ADDRESS ____________________

adn-3

WILLIAMSPORT
AREA
COMMUNITY
COLLEGE

1005 West Third Street • Williamsport, Pennsylvania 17701-5799 • (717) 326-3761

Office Of The President

July 14, 1987

Donald Creamer, President
The Williamsport Hospital and Medical Center
777 Rural Avenue
Williamsport, PA 17701

Dear Mr. ~~Creamer~~: Don

I want to again thank you for your interest and energy in working with The Williamsport Area Community College to establish an Associate Degree Nursing program at the College. Enclosed is the Memorandum of Understanding relating points which were discussed at the June 17, 1987, meeting between area hospital representatives and College staff.

I believe this document can assist all parties in understanding directions, constraints and responsibilities. I would appreciate your signing the Memorandum of Understanding, returning the original to the College and retaining a copy for your own reference.

We at The Williamsport Area Community College continue our commitment to work with you to develop the programming which can benefit our various institutions as we mutually work to serve our common community.

Again my thanks for your commitment and cooperation in this endeavor.

Sincerely,

Robert L. Breuder,
President

Encls.

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EOE/AA/MF/VH

MEMORANDUM OF UNDERSTANDING
Development of Associate Degree Nursing (ADN) Education at The Williamsport Area Community College: 1987-88

BACKGROUND

In response to a written request from Sister Jean Mohl, President of Divine Providence Hospital, on behalf of the Williamsport Area Hospital Council (including Divine Providence Hospital, Lock Haven Hospital, Jersey Shore Hospital, Muncy Valley Hospital, Bucktail Medical Center, The Williamsport Hospital and Medical Center, and Soldiers and Sailors Memorial Hospital), a meeting was held on June 17, 1987, between representatives of Council hospitals and of The Williamsport Area Community College to discuss issues related to nursing shortages in the area and the College's possible addition of an ADN program. This document indicates assumptions, understandings and agreements with respect to development of an ADN program at W.A.C.C. during 1987-88.

ASSUMPTIONS

THE WILLIAMSPORT AREA COMMUNITY COLLEGE and THE UNDERSIGNED DESIGNATED SUPPORT/PARTICIPANT HOSPITAL mutually concur with the following assumptions:

A. Provision of quality health care in the Northcentral Pennsylvania region depends on the increased availability of well trained nursing staff.

B. Development of an Associate Degree Nursing program at The Williamsport Area Community College has strong potential to assist in providing such well trained personnel.

C. The parties to this memorandum conceptually support the investigation and development of such an Associate Degree Nursing program at the College.

D. Differential training for nursing exists (LPN, ADN, BSN, MSN, etc.) which meets a range of specific health care provider needs. An effective curriculum design should support career ladder considerations.

E. Health care education entails considerable cost implications not found in other educational/training programs.

F. Required nurse staffing and technical skills differ from health care institution to institution. An effective curriculum must address a broad range of these skills but will not be focused specifically to the needs of a single institution.

G. Effective nursing education is a lifelong endeavor. Quality nursing service requires continued upgrading, retraining, and review of new procedures.

UNDERSTANDINGS AND AGREEMENTS

THE WILLIAMSPORT AREA COMMUNITY COLLEGE will:

A.1. Employ a full-time ADN curriculum developer for the 1987/88 academic year.

A.2. Conduct a required feasibility assessment for Associate Degree Nursing proposal to be completed by October, 1987.

A.3. Develop, as required, the curriculum model for proposed Associate Degree Nursing program by November, 1987.

A.4. Evaluate cost implications of an ADN program at the College based on feasibility assessment, curriculum model, staffing requirements, potential student enrollment and class sizes, and operating/capital budget requirements.

A.5. Define revenue sufficient to support responsibly the ADN program. Such revenue may come from student tuition, sponsorship support, State reimbursement, and other potential financial support from health care providers benefitting from the nursing education programs. Adequate ADN support revenue will be prerequisite to the College's finalizing submission of the program proposal to the State Board of Nursing and the W.A.C.C. Board of Trustees for formal approval and implementation.

A.6. Submit the program in November, 1987, for January, 1988, consideration by the State Board of Nursing, predicated on positive resolution of assessment and fiscal questions.

A.7. Submit program in December, 1987, for February, 1988, consideration by the W.A.C.C. Board of Trustees.

A.8. Recruit fall, 1988, student class and required full-time faculty and staff.

A.9. Inform other area health care facilities (acute care and non-acute care) of College intent.

A.10. Solicit involvement of health care providers not at the initial meeting who are likely to be directly impacted by the initiative -- specifically, Evangelical Hospital, Soldiers and Sailors Memorial Hospital and Robert Packer Medical Center.

A.11. Develop a broad curriculum approach which supports LPN, ADN and career ladder professional development.

DESIGNATED SUPPORT/PARTICIPANT HOSPITAL shall:

B.1. Recommend a liason representative to serve actively on the Associate Degree Nursing Advisory Committee.

B.2. Assist in providing data relative to employment opportunities, student recruitment potential, and salary projections needed for formal program assessment documentation.

B.3. Provide a range of clinical sites necessary to support multiple levels of instruction (LPN, ADN, acute, non-acute) through the various participating hospitals.

B.4. Support continuing supply of trained nursing staff through encouragement of student enrollment in nursing education by means of tuition support systems for current employees and for potential future employees.

B.5. Cooperate with the College in analyzing fiscal challenges of high cost nursing education and consider additional fiscal support to address revenue shortfall which could prevent the College from independently supporting the program.

B.6. Assist the College in defining appropriate continuing professional educational training for current nurses which can be provided through College staff and facilities in cooperation with hospital staff and facilities.

EFFECTIVE DATE

The parties agree that this Memorandum of Understanding shall be effective upon signature and shall continue during the development and implementation stages of the ADN program referenced herein.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE

Robert L. Breuder ______ 7/3/87
Robert L. Breuder, President ______ Date

THE WILLIAMSPORT HOSPITAL AND MEDICAL CENTER

Donald B. Creamer ______ 7/21/87
Donald Creamer, President ______ Date

Robert Packer Hospital
Guthrie Square, Sayre, Pennsylvania 18840 · Telephone (717) 888-6666

September 17, 1987

SEP 21 1987
DEAN OF
ACADEMIC AFFAIRS

James E. Middleton, D.A.
Dean of Academic Affairs
Williamsport Area Community College
1005 West Third Street
Williamsport, Pennsylvania 17701-5799

Dear Mr. Middleton:

Thank you for forwarding the Memorandum of Understanding. Generally speaking I have no concerns related to signing the Understanding; however, I am curious as to your use of the North Campus relative to the recruitment and education of associate degree nursing students. The reason is due to our recent development of a baccalaureate nursing program with Mansfield University. If you would please review for me the plans of the North Campus it would be greatly appreciated.

Very truly yours,

David Bertauski
Vice President
Patient Care Services

DB:jd

WILLIAMSPORT
AREA
COMMUNITY
COLLEGE

1005 West Third Street • Williamsport, Pennsylvania 17701-5799 • (717) 326-3761

September 23, 1987

David Bertauski, Vice President
Patient Care Services
Robert Packer Hospital
Guthrie Square
Sayre, PA 18840

Dear Mr. Bertauski:

Thank you for your letter indicating general support for the Memorandum of Understanding relative to The Williamsport Area Community College's plans to develop an Associate Degree Nursing educational program.

I am pleased to provide information on the North Campus's role in recruitment and education of associate degree nursing. Our vision is that LPN training only would be offered at the North Campus in Wellsboro. Our proposed structure for the ADN curriculum seeks to provide articulation opportunities for LPN graduates. Therefore, graduates of the North Campus LPN program would have the opportunity to transfer to the Main Campus in Williamsport to upgrade their credentials to ADN. We would hope to provide similar upgrading in the best interests of students and area health care providers for those LPNs already working in the field. Certainly sufficient quality controls will be in place to insure that such upgraded LPNs have the full competencies required of an ADN graduate. On the broader level, we are hopeful that graduates of our proposed ADN program would have long-term opportunities for articulation into BSN programs to further develop a career ladder approach to nursing development.

I hope this provides a more detailed view of our approach to nursing education and the North Campus role in this plan.

Please feel free to contact me if you have further questions. We look forward to receiving the Memorandum of Understanding from you.

Sincerely,

James E. Middleton

James E. Middleton, D.A.
Dean of Academic Affairs

bp

"Opportunity With Excellence"
EOE/AA/MF/VH

CASALE & BONNER, P. C.
A PROFESSIONAL CORPORATION
ATTORNEYS & COUNSELLORS AT LAW
329 MARKET STREET
WILLIAMSPORT, PA. 17701

AREA CODE 717
TELEPHONE 326-7044

MICHAEL J. CASALE
OHN R. BONNER
ICHAEL J. CASALE, JR.
NORMAN M. LUBIN
JAMES D. CASALE

January 6, 1987

Robert Bruder, President
Williamsport Area Community College
1005 West Third Street
Williamsport, PA 17701

Dear Bob:

After a recent stay in the Divine Providence Hospital, I have discovered that there is a great need in the community for an associate degree R.N. program.

I heard nothing but good things about the WACC L.P.N. program, and I think it a natural extension of our community college to branch into an R.N. program also.

Should this idea find merit, I would be glad to assist in any way that I can.

Sincerely,

CASALE & BONNER, P.C.

Mike

Michael J. Casale, Sr.

MJC,SR/kea

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

ADMISSION POLICY

All applicants for Nursing must have completed all of the procedures for admission of full-time students.

a. WACC Application
b. Copy of High School Transcript
c. Payment of the $15.00 Application Fee
d. College Placement Testing
e. SAT Scores

Admission to the program is on a competitive basis. Applicants must have completed work equal to a standard high school course with a minimum of 16 units, including four units of English, three units of social studies, two units of mathematics (one of which is algebra) and two units of a science with a related laboratory or the equivalent. Qualified applicants will be notified to schedule an interview with the director of the nursing program. Early application is essential as each class is limited in size.

All accepted nursing students must be in stable physical and mental health. A physical examination, eye and dental examination, chest x-ray, complete blood count, serology, urinalysis, rubella titer, and specific immunizations are required. Current certification in Basic Life Support is also required.

* Clinical experiences are part of each nursing course. These experiences are provided at area hospitals as well as other community agencies. Students are responsible for their own transportation to and from clinical assignments.

* Nursing courses must be taken in the sequence listed. Nursing students must maintain a grade of "C" or higher in each nursing course in order to proceed to the next nursing course. Students are graded as Satisfactory or Unsatisfactory in the clinical practice area of each course. In order to pass a nursing course, the student must attain a Satisfactory grade in clinical practice.

* The College requires a grade-point average of 2.0 ("C" average) for graduation.

* All nursing students are rquired to purchase a professional liability insurance policy before beginning nursing courses.

* Students who have previous college credit in other courses may apply for transfer credit by presenting official college transcripts to the admissions office.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

PHILOSOPHY

In accordance with the Philosophy of The Williamsport Area Community College, the faculty believes that nursing education should take place in an institution of higher learning which offers a broad curriculum of general knowledge, is accessible, affordable, and responsive to regional employment realities. In addition, nursing education should be independent of the health care service sector and in an environment whose primary goal is education.

The objectives of The Williamsport Area Community College and its Nursing Department seek to provide the means for an individual "to prosper in a complex and changing society, ... learn to think independently, value logical and tested conclusions, develop problem solving abilities, and function effectively with other people."

Education is the acquisition of knowledge that results in behavioral change and encourges the maximum development of individual potential. This acquisition of knowledge must be done in a well-defined sequential manner progressing from simple to complex concepts and built on prior learning experiences. The environment must be conducive to learning while providing for individual differences and needs.

Nursing education is a logical plan utilized to prepare graduates as entry-level practitioners. It is the process by which the student acquires knowledge, skills, attitudes and judgments to provide safe nursing care.

Nursing is an art and a progressive science dedicated to the betterment of human welfare. Its aim is to assist the individual or family in the prevention of illness, restoration to health, adaptation to long-term illness and provision of comfort when return to health is no longer possible.

Man's ever-changing interaction with and adaptation to the environment is an effort to maintain an optimum level of wellness. He is influenced in his adaptation to stressors not only by the environment, but also his stage of psychosocial and physiologic development and his ability to achieve need satisfaction as delineated by Abraham Maslow's Hierarchy of Human Needs. These needs include physiologic needs, safety and security, love and belonging, self-esteem and self-actualization. Inability to meet these basic human needs results in client problems and inability to achieve optimal wellness.

The nursing process provides a well-defined systematic approach to integrate the concepts of adaptation, basic human needs, body systems and wellness. it is a tool to organize and implement care. Client data is collected, analyzed and organized resulting in a plan to implement care.

Because the practice of nursing is constantly changing it is the ultimate responsibility of the nurse to maintain competency through continuing education.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

PROGRAM GOALS AND OBJECTIVES

The graduate will:

1. integrate knowledge from biological, social, and nursing sciences when applying the nursing process to clients with common well-defined health problems in a structured health care setting.
2. provide direct nursing care on a day-to-day basis to meet the needs of clients with well-defined health problems.
3. respect the rights of colleagues, clients and other health care professionals, and will safeguard their confidences within the constraints of the law.
4. practice nursing within the profession's ethical and legal framework.
5. perform nursing skills that require cognitive affect and psychomotor capabilities safely.
6. establish and maintain effect communication with clients, families, and health team members.
7. function as a contributing member of the health team.
8. assume accountability and responsibility as a registered nurse for the quality and comprehensive completeness of nursing care.
9. continue to evaluate professional growth by utilizing opportunities for continuing education.
10. develop a personal philosophy of nursing which contributes to the well being and integrity of clients and enhances nursing practice.
11. achieve the general education goals established for all Associate Degree students at The Williamsport Area Community College.
12. be eligible to sit for the NCLEX-RN examination.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING I (NUR I)
CATALOG DESCRIPTION

DESCRIPTION:	Nursing I introduces basic concepts of professional nursing practice. The student begins to utilize the nursing process in the delivery of client care. Basic assessment skills are taught. Upon completion of the course, the student is prepared to provide basic hands-on nursing care in the clinical setting.
PREREQUISITES:	None
CO-REQUISITES:	BIO 115, ENL 111, PSY 111
PLACEMENT:	Semester I
CREDITS:	8 (6-6)
RATIONALE:	This course is designed to introduce the student to basic concepts and principles in the field of nursing. Emphasis is placed on the normal human being's basic needs. Technical skills are introduced and practiced in the nursing skills laboratory. Later, skills are mastered in the clinical setting. Upon successful completion of this course, the student will be eligible to progress to NUR II.
TEXTBOOKS:	Smith, Sandra and Duell, Donna. Clinical Nursing Skills. National Nursing Review, 1985. Smith, Sandra and Duell, Donna. Checklists for Clinical Nursing Skills. National Nursing Review, 1985. Miller, Benjamin and Keane, Claire. Encyclopedia and Dictionary of Medicine, Nursing, and Allied Health. Fourth edition. W. B. Saunders Company, 1987. Nursing '88 (Journal) Williams, Sue R. Essentials of Nutrition and Diet Therapy. Fourth edition. Mosby, 1986. Smith, Sandra and Duell, Donna. Clinical Nursing Skill Cards--Basic to Advanced Skills. National Nursing Review, 1986.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING I (NUR I)
COURSE OBJECTIVES

Upon completion of Semester I, the student will be able to:

1. identify the role of the Associate Degree Nurse.
2. assess and identify the basic needs of all individuals according to Maslow's Hierarchy.
3. recognize and utilize verbal and nonverbal therapeutic techniques.
4. identify and utilize the components of the nursing process.
5. identify selected developmental tasks for each of the eight major age groups.
6. utilize basic bio-psychosocial principles in planning nursing activities.
7. describe legal and ethical frameworks to ensure client confidentiality.
8. perform basic nursing skills with competence.
9. identify foundations of the health care delivery system.
10. identify and assess personal learning needs with faculty guidance.
11. recognize basic principles of drug administration to ensure client safety.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 1

UNIT : I

TITLE: Introduction to Nursing Practice

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Briefly outline the historical background of nursing.	I. Hospital Background A. Folk Image B. Religious Image C. Renaissance Image D. Emergence of Modern Nursing E. Nursing in the United States	Appropriate assigned text readings. Lecture/Discussion
Compare and contrast the legal definitions of nursing with those of official nursing organizations.	II. Definition of Nursing A. Legal Definition B. Definitions by Nursing Organizations 1. American Nurses' Association 2. National Council of State Boards of Nursing 3. National League for Nursing 4. The Williamsport Area Community College Definition of Nursing	Appropriate assigned text readings. Lecture/Discussion
Differentiate the various roles seen in nursing.	III. The Role of the Nurse A. Social vs. Professional Role B. Independence Role vs. Complementary Role C. The Role of the Nursing Student	Appropriate assigned text readings.

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CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
List, in ascending order, Maslow's Hierarchy of Needs.	VII. Human Needs A. Maslow's Hierarchy 1. Physiological Needs 2. Safety Needs 3. Love and Belonging Needs 4. Esteem Needs 5. Need for Self-Actualization B. The Hierarchy of Needs as a Motivational Force	Appropriate assigned text readings. Quizzes
Discuss the role of communication in nursing.	VIII. The Nature of Interactions A. Variables in an Interaction B. Phases of Interaction C. Methods of Communicating Messages 1. Conveying Attitudes a. Honesty and Genuineness b. Caring and Concern 2. Techniques of Verbal Communication a. Asking Questions b. Facilitating Responses c. Blocking Responses 3. Understanding Non-Verbal Communication 4. Attentive Listening 5. Assertive Communication	AV Filmstrip: Communication Role Playing Appropriate assigned text readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
List the major purposes of communication in nursing.	IX. Special Purposes of Communication in Nursing A. Socializing B. Interviewing C. Therapeutic Interaction D. Health Teaching E. Coorinating Patient Care	Role Playing Appropriate assigned text readings.
List and explain the rights of clients, nurses, and students.	X. Rights of Clients and Health Care Providers A. Client Rights 1. Right to Self-Determination 2. Consent 3. Right to Privacy/ Confidentiality 4. Right to Safe Care 5. Right to Personal Dignity B. Nurses' Rights and Responsibilities C. Student Rights and Responsibilities	Guest Lecture: Hosptial/College Legal Consultant Appropriate assigned text readings.
Identify essential elements to be communicated when reporting on and off as a student.	XI. Verbal Reports of Client's Condition A. Intershift Communications B. Team Conferences C. Recording Care	Guest Lecture: Patient Care Coordinator and Nursing Faculty

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 1

UNIT : II

TITLE: Overview of Physical Assessment

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe the nursing process.	I. Nursing Process A. Historical Perspective B. Rationale C. Concept D. Components	Appropriate assigned text readings. Lecture/Discussion
	II. NANDA	
Describe the components of the nursing process.	III. Components A. Assessment 1. Collecting Data 2. Analysis - Nursing Diagnosis B. Plan C. Implementation D. Evaluation	Appropriate assigned text readings. Lecture/Discussion AV Videotape: Nursing Process
Discuss methods of physical assessment.	IV. Physical Assessment A. Subjective Data 1. Health History 2. Client's Description of the Problem B. Objective Data 1. Observable Signs and Symptoms	Wolfe, Helen and Roberta Erickson. "The Assessment Man," Nursing Outlook, February 1977, 25:2, p. 103-107. Assessment Demonstration/Practice Lecture/Discussion Appropriate assigned text readings.

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CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	B. Objective Data (continued) 2. Performed in Orderly Fashion a. Head-to-Toe b. "The Assessment Man" c. Techniques i. Inspection ii. Auscultation iii. Percussion iv. Palpation	
Distinguish between values, morals, and ethics.	V. Definitions A. Beliefs B. Attitudes C. Opinions D. Values 1. Cultural 2. Religious E. Ethics - Code of Ethics	Appropriate assigned text readings.
Identify the legal responsibilities of the professional nurse.	VI. Nurse Practice Act and Function of the Professional Nurse A. State Board of Nursing - Licensure B. Legal Implications of Client Care	Appropriate assigned text readings.
Define hypo/hyperthermia and demonstrate proper technique for temperature measurement via three routes.	VII. Heat Production/Loss A. Basal Metabolic Rate B. Fever Physiology C. Normal/Abnormal Temperature D. Routes of Measurement - Indications/Contra-indications	Demonstration by faculty. Appropriate assigned text readings. Skills lab practice and testing.

NUR: ADN 1 UNIT: II

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe concepts of heart rate/pulse rate and demonstrate proper technique of measurement.	VIII. Pulse Rate/Heart Rate A. Normal/Abnormal 1. Quality 2. Rate 3. Rhythm B. Affecting Factors C. Sites D. Accurate Measurement	Faculty demonstration. Appropriate assigned text readings. Skills lab practice and testing.
Describe basic concepts of respiration and demonstrate proper technique of measurement.	IX. Respiration A. Normal/Abnormal B. Patterns of Respiration C. Counting and Recording	Faculty demonstration. Appropriate assigned text readings. Skills lab practice and testing.
Describe basic concepts of blood pressure and demonstrate proper technique of measurement.	X. Blood Pressure A. Systole and Diastole B. Normal/Abnormal C. Affecting Factors D. Equipment E. Technique of Measurement	Faculty demonstration. Appropriate assigned text readings. Skills lab practice and testing.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 1

UNIT : III

TITLE: Basic Skills for Client Care

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe and practice safety precautions for clients and self.	I. Safety Practices A. Posture and Body Mechanics	Handouts AV: Patient Safety Practice body mechanics in lab.
Discuss practices which constitute hygienic care for a client.	II. Hygiene A. Cultural Influences B. Nurse's Hygiene C. Handwashing D. Bedmaking E. Bedbaths 1. Skin Care 2. Hair and Nail Care 3. Oral Hygiene 4. Denture Care 5. Shaving F. Self-care G. Sitz Baths H. Bed Pans and Urinals I. AM and PM Care 1. Backrubs	Appropriate assigned text readings. Handout - Body Mechanics and Bed Making AV: Occupied Bedmaking Bedbath Oral Hygiene Tubs and Showers Practice all procedures in campus lab and clinical setting under supervision. Skills lab practice and testing.
Assist with mobility.	III. Mobility A. Hazards of Immobility 1. Decubiti 2. Contractures B. Body Alignment C. Range of Motion D. Restraints E. Transfer of Clients and Ambulation F. Lifting and Moving Clients	AV: Prevention and Treatment of Decubiti Range of Motion Exerciese to Prevent Contractures Use of Protective Restraints Transfer Activities and Ambulation Use of Patient Litters Lifting and Moving Patients Handout - Restraints Skills lab practice and testing. Practice all procedures in campus lab and clinical setting under supervision.

THE WILLIAMSPOR REA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 1

UNIT : IV

TITLE: Medical and Surgical Aseptic Techniques

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe responsibilities of the nurse in pre-op care of clients.	I. Pre-op Care A. Preparation of the Client B. Laboratory Studies C. Pre-op Teaching	AV Skills lab practice and testing.
Identify common equipment used in the care of post-operative clients.	II. Equipment A. N/G Tubes B. Hemovacs C. Jackson Pratt D. Suction	AV Skills lab practice and testing.
Describe procedures commonly performed in the care of post-op clients.	III. Post-op Care A. Vital Signs B. Positioning, Deep Breathing C. Wound Care D. Wound Irrigations E. Documentation	AV Skills lab practice and testing.
Identify common post-op complications including nursing care.	IV. Post-op Complications A. Definition B. Prevention C. Signs and Symptoms D. Treatment and Nursing Care	AV Skills lab practice and testing.
Differentiate between medical and surgical asepsis.	V. Isolation A. Purpose B. Types of Isolation C. Disinfection Procedures	AV Skills lab practice and testing.

NUR: ADN 1 UNIT: IV PAGE 2 of 2

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	VI. Surgical Asepsis A. Microorganisms B. Principles of Sterile Technique	AV Skills lab practice and testing.
Demonstrate and explain the procedure for changing a dressing. List five functions of a dressing.	VII. Dressings A. Materials Used B. Instruments Used C. Solutions D. Rationale for Use of Each E. Observations to be Made	AV Skills lab practice and testing.
Compare the effects of heat and cold on the blood vessels.	VIII. Methods to Apply Cold A. Ice Cap, Bag, Collar B. K-cooler C. Ice Compresses	AV Skills lab practice and testing.
	IX. Methods to Apply Heat A. Hot Water Bottle B. K-Pad C. Soaks and Compresses	AV Skills lab practice and testing.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 1

UNIT : V

TITLE: Introduction to Nutrition and Elimination

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Explain basic principles of nutrition.	I. Principles of Nutriton A. Basic "4" Food Groups B. Nutrition and Health Through the Lifespan C. Nutrients 1. Carbohydrates 2. Fats 3. Proteins 4. Vitamins 5. Minerals 6. Water D. Calories and Energy E. Food Fallacies 1. Fad Diets 2. Vegetarian Diets F. Malnutrition 1. Signs and Symptoms 2. Diseases 3. Treatment	AV: Nutrition Diet analysis and entergy expenditure. Comparison of fad diets to well-balanced diets.
Describe therapeutic diets and the nurse's responsibility at mealtime.	II. Types of Therapeutic Diets A. Menu Selection B. Role of the Dietitian C. Enterostomy/Gastrostomy Feedings	AV: Feeding the Client Assist clients with menu selection.

NUR: ADN 1 UNIT: V

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Explain and apply principles of fluid and electrolyte balance.	III. Principles of Fluid and Electrolyte Balance A. IV Therapy B. Intake and Output C. Acid-Base Balance D. Observation of IV Therapy 1. Counting Drops 2. Assessing IV Site 3. Removal of IV Needles	AV: Intake and Output
Identify and apply principles of elimination.	IV. Elimination A. Normal B. Abnormal Elimination C. Ostomy Care D. Nursing Lab 1. Enemas 2. Impactions 3. Rectal Tubes 4. Specimen Collections 5. Ostomy Irrigations 6. Catheterizations 7. Urine Testing	AV: Cleansing Enema Collecting Urine Specimens Colostomy Care Testing Urine for Glucose and Ketones Skills lab practice and testing.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 1

UNIT : VI

TITLE: Pharmacology

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Differentiate between metrics, apothecary and household systems of measurement.	I. Systems of Measurement A. Metric B. Apothecary C. Household D. Conversion Factors	Worksheets Handouts
Describe specific drug classifications.	II. Classifications A. Anti-infectives B. Cardiovascular Drugs 1. Dilators 2. Antihypertensives C. Affect Central Nervous System 1. Cholinergic 2. Anticholinergic D. Analgesics 1. Narcotic 2. Non-narcotic E. Psychotropic 1. Antipsychotic 2. Antidepressant F. Gastrointestinal G. Vitamins	Assigned text readings.
Identify common nursing practices to insure client safety when administering medications.	III. Administration A. Nurse's Responsibility B. Client Identification C. "5 Rights" D. Check Label Three Times E. Pour at Eye Level F. Record	Assigned text readings.

UR: ADN 1 UNIT: VI PAGE 2 of 2

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Calculate accurate medication dosage.	IV. Calculating for Pharmacology A. Drug Problems B. Ratio/Proportion	Math pre-test. If below 80%, obtain independent math learning module.
Identify principles of oxygen administration.	V. Oxygen as a Drug A. Cannula/Mask B. Humidification C. Flow Rate D. Mouth Care E. Positioning	Assigned text readings. Faculty demonstration. Skills lab practice and testing.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING II (NUR II)
CATALOG DESCRIPTION

DESCRIPTION: The nursing process is utilized to initiate focus on medical-surgical needs of adult clients. In medical-surgical nursing, emphasis is on common health problems which result from disturbances in the following body systems: cardiovascular, urinary, respiratory, hematopoietic, integumentary, and sensory. Diet therapy and pharmacology are integrated throughout. Clinical practice is accomplished at affiliating agencies.

PREREQUISITES: NUR I, BIO 115, ENL 111, PSY 111

CO-REQUISITES: PSY 203, BIO 125, ENL 121

PLACEMENT: Semester II

CREDITS: 8 (5-9)

RATIONALE: This course is designed to introduce medical-surgical concepts and principles which will enable the student to apply the nursing process in caring for adult clients with common health problems. Technical skills learned in Semester I are refined and augmented in this course.

TEXTBOOKS: Luckmann and Sorensen. *Medical-Surgical Nursing: A Psychophysiologic Approach*. Third edition. W. B. Saunders Company, 1987.

Giovanni and Hayes. *Drugs and Nursing Implications*. Fifth edition. Appleton-Century-Crofts, 1985.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING II (NUR II)
COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

1. identify causes, signs and symptoms, and treatments of common well-defined health problems of the cardiovascular, respiratory, urinary, hematopoietic, integumentary, and sensory systems.
2. utilize the nursing process to assist the client in adapting to his/her level of illness.
3. plan and implement nursing interventions based upon the formulation of a nursing diagnosis and goals.
4. implement common nursing interventions to achieve client care goals.
5. evaluate goal achievement and client response to care.
6. safely administer medications via oral, intramuscular, and subcutaneous routes.

THE WILLIAMSPORT . _A COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 2

UNIT : I

TITLE: Pathophysiological Processes of Illness

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe major causes and defenses against disease.	I. Major Causes of Disease A. Physiological B. Psychological	Module on disease process. Assigned readings.
	II. Concepts of Disease Prevention A. Body's Natural Defense System 1. Antigen/Antibody Response 2. Repair and Healing 3. Variables Affecting Body Defenses B. Immunity 1. Humoral 2. Cellular	Assigned readings. Lecture/Discussion Quizzes
	III. Signs and Symptoms of Disease A. Inflammation B. Infection C. Pain D. Bleeding	
Describe, in detail, the responsibilities of the nurse in pre-operative and post-operative care of clients and list nursing implications.	IV. Pre-op Care A. Preparation of the Client B. Lab Studies	AV: Pre-op Skin Preparation Pre-op and Post-op Care (includes film viewing guide) Worksheets Practice skin preparation in campus lab.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Through recall, identify common equipment used in the care of post-operative clients. Describe, in detail, procedures commonly performed in the care of post-operative clients and list nursing implications.	V. Post-op Care A. N/G Tubes B. Hemovacs C. Wound Care and Aseptic Technique D. Wound Irrigations E. Vital Signs F. Positioning, Deep Breathing G. Documentation	Handout: Meeting the needs for client safety during sterile AV: Wound Care Draining a Wound Wound with a Drain Montgomery Straps Practice sterile technique in lab and in clinical area under supervision.
Through recall, identify common post-op complications including nursing care.	VI. Post-op Complications (including shock) A. Definition B. Prevention C. Signs and Symptoms D. Treatment and Nursing Care	Skills lab practice and testing.
Discuss the purpose of isolation technique.	VII. Isolation A. Purpose of Isolation B. Types of Isolation C. Disinfection Procedures	AV: Isolation Practice isolation technique in campus and in clinical area under supervision.
Describe the safety factors involved in medication administration. Identify correct procedures of medication administration.	VIII. Medications A. Medication Administration 1. Oral 2. Subcutaneous 3. Intramuscular 4. Drops 5. Topicals 6. Intravenous 7. Vaginal/Rectal B. Federal Regulations Governing Administration of Medications C. SBN Regulations Governing Medication Administration	AV: Administration of Medications Subcutaneous and IM Injections Drug References Drug Cards/Sheets Practice drug administration in campus lab and in clinical area under direct supervision. Review of math module from NUR I.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Discuss the normal needs for body fluids based on an understanding of the physiological mechanisms that maintain fluid/electrolytes balance. Identify the relationship between renal blood flow and urinary output. Define: osmosis, isotonic, hypertonic, hypotonic.	IX. Overview of Fluid/Electrolytes A. Fluid/Electrolyte Balance 1. Body Fluid Compartments a. Intracellular b. Interstitial c. Intravascular 2. Electrolytes 3. Regulation of pH a. The Buffer System 4. Regulation of Elimination a. Lungs b. Kidneys c. Adrenals d. Pituitary 5. Other Systems Effecting Fluid/Electrolyte Balance a. Stomach b. Intestines c. Skin B. Fluid/Electrolyte Imbalances 1. Alkalosis a. Gastrointestinal b. Lungs c. Kidneys 2. Acidosis a. Lungs b. Kidneys c. Skin i. Burns d. Gastrointestinal e. Metabolism i. Diabetes ii. Starvation iii. Hyperthyroid f. Other C. Compensatory Mechanism D. Fluid/Electrolyte Therapy	Assigned reading. Quizzes

THE WILLIAMSPORT A . COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 2

UNIT : II

TITLE: Cardiovascular System

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Collect data to assess nursing needs of the client with cardiovascular problems.	I. Assessment A. Subjective Data 1. History 2. Fatigue and Weakness 3. Syncope 4. Dyspnea 5. Orthopnea 6. Paroxysmal Nocturnal Dyspnea 7. Cough 8. Hemoptysis 9. Palpitations 10. Pain 11. Intermittent Claudication 12. Homan's Sign B. Objective Data 1. Venous Distention 2. Bruits 3. Heart Rate and Rhythm 4. Blood Pressure 5. Skin Temperature 6. Skin Color a. Pallor b. Rubor c. Cyanosis 7. Hair Growth 8. Capillary Refill 9. Edema 10. Clubbing	Independent review of anatomy and physiology of cardiovascular system. Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION

B. Objective Data (continued)
  11. Peripheral Pulsations
  12. Arterial vs. Venous Insufficiency

C. Related Data
  1. Diagnostic Tests
    a. Radiologic Tests
      i. Chest X-ray
      ii. Cardiac Fluoroscope
      iii. Cine Radiography
    b. Electrocardiogram
    c. Telemetry
    d. Circulation Time
    e. Angiography
      i. Angiocardiography
      ii. Arteriography
    f. Cardiac Catheterization
    g. Hemodynamic Monitoring
      i. CVP
      ii. Circulation Time
      iii. Thermodilution-Swan Gantz Catheter
    h. Ultrasound
    i. Oscillometric Readings
    j. Lumbar Sympathetic Block

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Related Data (continued) 2. Blood Tests a. Hemoglobin/ Hematocrit b. White Blood Count c. Sedimentation Rate d. Prothrombin Time (PT) 12-15 sec. (Coumadin) e. Partial Thromboplastin Time (PTT) f. Lee White - Normal 9-12 min. Heparinized 2-3 Times g. Cardiac Enzymes i. CPK ii. SGOT iii. LDH h. Arterial Blood Gases	
Identify common health problems which affect the cardiovascular system.	II. Common Well-Defined Health Problems A. Arteriosclerosis and Atherosclerosis B. Ischemic Heart Disease 1. Angina Pectoris 2. Myocardial Infarction a. CHF b. Pulmonary c. Pulmonary Embolis d. Cardiogenic Shock e. Cardiac Arrythmias f. Cardiac Arrest	Assigned readings. Interpretation of rhythm strips - independent study.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Hypertension D. Diseases of the Arteries and Veins 1. Arteriosclerosis Obliterans 2. Buerger's 3. Raynaud's 4. Emboli 5. Thrombophlebitis 6. Varicose Veins	
Discuss the treatment designed to restore and maintain health of clients who experience alterations in the cardiovascular system.	III. Management A. Medications 1. Diuretics 2. Cardiac Glycosides 3. Anticoagulants 4. Vasopressors 5. Antiarrythmics 6. Antihypertensives 7. Vasodilators B. Dietary Regulations 1. Calories 2. Sodium Content 3. Potassium Content 4. Saturated Fat Intake C. Mechanical Interventions 1. Pacemaker 2. Defibrillator 3. Intra-aortic Balloon D. Surgical Intervention 1. Cardiac a. Coronary By-pass b. Valvular Replacement c. Heart Transplant d. Artificial Heart 2. Peripheral Vascular a. Vein Ligation b. Sympathectomy c. Amputation	Assigned text readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Make an analysis of independent and interdependent nursing actions in the management of a client with cardiovascular disease.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety and Security b. Love and Belonging c. Esteem d. Self-Actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Actions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	Assigned readings. Formulate a written care plan on the cardiovascular client.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 2

UNIT : III

TITLE: Urinary System

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Collect data to assess nursing needs of the client with urinary problems.	I. Assessment Factors A. Subjective Data 1. History 2. Pain 3. Frequency 4. Urgency 5. Burning 6. Dysuria 7. Hesitancy 8. Inability to Void 9. GI Complaints B. Objective Data 1. Eneuresis 2. Polyuria 3. Oliguria 4. Hematuria 5. Incontinence 6. Genitalia C. Related Data 1. Residual Urine 2. Cystometrogram 3. KUB 4. IVP 5. Renal Angiography 6. Cystoscopy and Retrograde Pylography 7. Renal Biopsy	Independent review of anatomy and physiology. AV: The Urinary System Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Related Data (continued) 8. Evaluation of Urine a. Creatinine Clearance b. Urine Culture/ Urinalysis 1. Protein 2. Glucose 3. Ketones 4. Blood 5. Pus 6. Bacteria 7. Crystals 9. Blood Chemistry-Article a. BUN/Creatinine b. Ions and Compounds 1. Na+ 2. K+ 3. Cl+ 4. Carbon Dioxide 10. Tests of Renal Function a. Renal Concentration Test b. PSP Phenolsulfonphthalein Excretion Test c. Creatinine Clearance	
Identify common health problems which affect the urinary system.	II. Common Well-Defined Health A. Acute Renal Failure 1. Pre-renal 2. Renal 3. Post-renal B. Chronic Renal Failure 1. Decreased Renal Reserve 2. Renal Insufficiency 3. Frank Renal Failure 4. Uremia	AV: Care of the client in chronic renal failure Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Neurogenic Bladder D. Urinary Tract Infections E. Renal Obstruction F. Urologic Problems Requiring Surgery 1. Carcinoma 2. Cysts G. Trauma	
Discuss the treatment designed to restore and maintain health of clients who experience alterations in the urinary system.	III. Management A. Medications B. Dietary C. Mechanical Intervention 1. Dialysis 2. Lithotriper 3. Catheters 4. Cystoscopy D. Surgical Intervention 1. Transplants 2. Ostomies 3. Nephrectomy	Assigned readings. Dialysis unit observation.
Make an analysis of independent and interdependent nursing actions in the management of a client with urinary disease.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Actions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	Assigned readings.

THE WILLIAMSPORT A[illegible] COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 2

UNIT : IV

TITLE: Respiratory Conditions and Interventions

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Collect data to assess the nursing needs of the client with respiratory conditions.	I. Assessment of Respiratory Status A. Subjective Data 1. History 2. Current Breathing Status 3. Pain 4. Fatigue 5. Medications B. Objective Data 1. Physical Assessment 2. Posture and Position 3. Rate, Rhythm, and Depth of Respirations 4. Accessory Muscles 5. Mucous Production 6. Skin Condition/Color 7. Breath Odor 8. Palpation of Chest 9. Ascultation a. Normal b. Abnormal C. Related Data 1. Diagnostic Testing a. Pulmonary Function b. Radiographic c. Endoscopic d. Blood Studies e. Biposy f. Thoracentesis g. MRI	Assigned readings. AV: The Respiratory System Worksheets Independent review of anatomy and physiology of the respiratory system.

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CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Related Data (continued) 2. Blood Studies a. Hgb b. Hct c. ABG's d. RBC	
Identify common health problems which affect the respiratory system.	II. Common Well-Defined Health Problems A. Asthma B. Acute and Chronic Respiratory Infections C. Chronic Obstructive Pulmonary Disease--Emphysema D. Chest Trauma E. Respiratory Failure F. Tuberculosis	AV: Hypoxia Diseases of the Respiratory System
Discuss the treatment designed to restore and maintain health of clients who experience alterations in the respiratory system.	III. Management A. Medications 1. Adrenocorticosteroids 2. Antitussives and Expectorants 3. Histamines and Antihistamines 4. Bronchodilators 5. Decongestants B. Dietary Considerations 1. Calorie Regulations 2. Fluid Regulation 3. Potassium Intake	Pharmacology references.
	C. Mechanical Intervention 1. IPPB 2. Breathing Exercises 3. Postural Drainage 4. Percussion and Vibration 5. Oxygen Delivery Systems 6. Chest Tubes and Sealed Drai	AV: Care of the Patient with Water-Seal Drainage Demonstrate proper use of oxygen equipment in campus lab. Review basic oxygen therapy from NUR I.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	D. Surgical Interventions 1. Operative Procedures 2. Pre-op Care 3. Post-op Care 4. Complications 5. Tracheostomies a. Permanent b. Temporary c. Suctioning	AV: Introduction to Tracheostomy Care Practice tracheostomy care on training manikins in skills lab and in clinical setting. AV: Postural Drainage
Make an analysis of independent and interdependent nursing actions in the management of a client with respiratory disease.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-Actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Actions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	Formulate a written plan of care for a client experiencing respiratory disease.

THE WILLIAMSPORT AR . COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 2

UNIT : V

TITLE: Hematologic Problems

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Collect data to assess nursing needs of the client with blood dyscrasia.	I. Assessment A. Subjective Data 1. History a. Dietary b. Previous Health Problems c. Genetic 2. Fatigue 3. Pallor 4. Dyspnea 5. Irritability 6. Pruritis 7. Anorexia 8. Fever 9. Joint Pain 10. Anxiety 11. Prone to Infection 12. Weight Loss 13. Easy Bruising 14. Bleeding from Superficial Tissues 15. Weakness B. Objective Data 1. Skin a. Changes in Texture of Skin, Hair, Nails b. Dry, Itchy Skin 2. Head, Face, Neck 3. Cardiovascular System a. Tachycardia b. Premature Heart Beat	Assigned readings. Independent review of anatomy and physiology of hematopoiesis.

NUR: ADN 2 UNIT: V PAGE 2 c 4

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	B. Objective Data (continued) 4. Abdomen 5. Skeletal System 6. Nervous System a. Changes in Sensory or Motor Function b. Behavioral and Emotional Changes 7. Lymph Nodes C. Related Data 1. Diagnostic Testing a. Bone Marrow Aspiration 2. Blood Tests a. CBC, Hgb, Hct b. Platelet Count c. Iron Levels, Binding Sites	
Identify common health problems which affect the hematopoietic system.	II. Common Well-Defined Health Problems A. Hypoproliferative Anemias Defect in Production of RBC's 1. Aplastic Anemia 2. Red Cell Aplasia 3. Due to Chronic Disease 4. Iron Deficiency Anemia 5. Megaloblastic Anemias 6. Pernicious Anemia 7. Folic Acid Deficiency	Assigned text readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	B. Hemolytic Anemia - Due to Premature Destruction of RBC's 1. Sickle Cell Anemia 2. Thalassemia 3. Acquired Hemolytic Anemias a. Polycythemia b. Leukopenia and Agranulocytosis c. Leukemia i. Acute ii. Chronic d. Platelet Defects i. Thrombocytopenia ii. Idiopathic Thrombocytopenia Purpura e. Clotting Factor Defects i. Hemophilia ii. Von Willebrand's Disease iii. Hypoprothrombinemia iv. Disseminated Intravascular Coagulation (DIC)	
Discuss the treatment designed to restore and maintain health of clients who experience blood disorders.	III. Management A. Medications 1. Iron Supplements 2. Vitamin Supplements 3. Blood Replacement 4. Chemotherapeutic Agents	Assigned readings. Blood transfusions. Skills lab practice and testing. Assigned drug cards.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	B. Dietary Modification C. Mechanical Interventions 1. Blood Transfusions 2. Phlebotomy D. Surgical Intervention 1. Splenectomy	
Make an analysis of independent and interdependent nursing actions in the management of a client with a blood disorder.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-Actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Actions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	Assigned readings.

THE WILLIAMSPORT A. . COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 2

UNIT : VI

TITLE: Senses and Integumentary

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Collect data to assess nursing needs of the client with visual and auditory problems.	I. Sensory Assessment--Eye & Ear A. Eye - Direct 1. Subjective Data a. Family History b. Previous Eye Problems c. Abnormal S & S 2. Objective Data a. Measurement of Visual Acuity b. Facial and Ocular Expression c. Ocular Movement d. Appearance of Eyelids, Conjunctiva, Sclera, Iris, and Pupils e. Visual Field f. Results from Ocular Examination i. Evaluation of Ocular Fundus ii. Estimation of Intraocular Pressure iii. Evaluation of Opacity with the Eye	Through recall, identify and describe the normal structure and functions of the eye and ear. AV: The Eye The Special Senses

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	B. Ear - Direct 1. Subjective Data a. Family History b. Previous Ear Problems c. Abnormal S & S 2. Objective Data a. Physical Inspection of the Ear b. Measurement of Hearing Acuity c. Facial Expression d. Ability to Follow Directions f. Attentiveness to Conversations g. Speech Articulation	
Identify common health problems which affect the sight and hearing.	II. Eye and Ear A. Common Health Problems Due to Loss or Absence of Visual Acuity 1. Opacity of Lens i. Cataracts ii. Retrolental Fibroplasia 2. Increased Intraocular Pressure i. Glaucoma 3. Retinopathy i. Detached Retina 4. Trauma i. Corneal Damage ii. Enucleation iii. Burns 5. Muscular Imbalance i. Strabismus	Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	A. Common Health Problems Due to Loss or Absence of Visual Acuity (continued) 6. Inflammation and Infection 7. Tumors	
	B. Common Health Problems Due to Altered Hearing Acuity 1. External Ear a. External Otitis b. Foreign Bodies in the Ear 2. Middle Ear a. Serous Otitis Media b. Acute and Chronic Purulent Otitis Media c. Mastoiditis d. Otosclerosis 3. Inner Ear a. Presbycusis b. Meniere's Disease C. Types of Hearing Loss 1. Sensorineural-Perceptive 2. Conductive Loss 3. Functional Loss	Assigned readings.
Discuss the treatment designed to restore and maintain health of clients who experience alterations with the visual and auditory senses.	III. Management of Clients with Eye and Ear Problems A. Corrective Lens B. Diagnostic Tests C. Medication and Treatments D. Surgical Intervention E. Hearing Aids F. Rehabilitation	Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Make an analysis of independent and interdependent nursing actions in the management of a client with visual and auditory problems.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	Assigned readings.
Collect data to assess nursing needs of the client with integumentary diseases and disorders.	V. Assessment A. Subjective Data 1. Family History 2. Previous Skin Problems 3. Pruritus 4. Pain B. Objective Data 1. Pruritus 2. Nails 3. Rashes 4. Lesions 5. Abrasions 6. Contusions 7. Erythema 8. Decubitus Ulcers 9. Incision Line 10. Color 11. Tugor 12. Temperature	Review structure and function of the skin.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Identify common health problems which affect the integumentary system.	VI. Skin Disorders A. Herpes 1. Simplex 2. Zoster B. Impetigo C. Allergies D. Acne Vulgaris E. Fungal Infections F. Cancer of the Skin G. Burns 1. Classification 2. Emergency Treatment 3. Long-term Treatment 4. Complications 5. Nursing Care	AV: Disorders of the Skin Burn Care
Discuss the treatment designed to restore and maintain health of clients who experience alterations in the integumentary system.	VII. Treatment A. Diet Therapy B. Drugs Used in Disorders of the Skin 1. Nursing Implications 2. Client Implications C. Diagnostics 1. Culture and Sensitivity Tests 2. Skin and Blood Testing 3. Signs and Symptoms	Assigned readings.
Make an analysis of independent and interdependent nursing actions in the management of a client with integumentary problems.	VIII. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-actualization	Assigned readings.

NUR: ADN 2 UNIT: VI

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	A. Nursing Diagnosis (continued) 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING III (NUR III)
CATALOG DESCRIPTION

DESCRIPTION: The nursing process is utilized to continue the study of the medical-surgical needs of the adult client. In this course, the emphasis is on common health problems which result from disturbances in the following body systems: neurological, musculoskeletal, gastrointestinal, endocrine and reproductive. The study of cancer is also included in this course as a separate unit. Diet therapy and pharmacology is accomplished at affiliating agencies.

PREREQUISITES: NUR I, NUR II, BIO 115, BIO 125, ENL 111, ENL 121, PSY 111, PSY 203

CO-REQUISITES: NUR IV, BIO 201, SOC 111

PLACEMENT: Semester III

CREDITS: 5 (3-6)

RATIONALE: This course is designed to continue the study of medical-surgical concepts and principles which will enable the student to apply the nursing process in caring for adult clients with common health problems. Technical skills learned in Semesters I and II are refined and augmented in this course.

TEXTBOOKS: Luckmann and Sorensen. Medical-Surgical Nursing: A Psychophysiologic Approach. Third edition. W. B. Saunders Company, 1987.

Giovanni and Hayes. Drugs and Nursing Implications. Fifth edition. Appleton-Century-Crofts, 1985.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING III (NUR III)
COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

1. identify causes, signs and symptoms, and treatments of common well-defined health problems of the neurological, musculoskeletal, reproductive, endocrine, and gastrointestinal systems.
2. utilize the nursing process to assist the client in adapting to his/her level of illness.
3. plan and implement nursing interventions based upon the formulation of a nursing diagnosis and goals.
4. implement common nursing interventions to achieve client care goals.
5. evaluate goal achievement and client response to care.
6. identify common neoplastic diseases with corresponding diagnostic tools and treatment modalities.
7. safely administer medications via the IV route.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 3

UNIT : I

TITLE: Neurological System

CONTRIBUTORY OBJECTIVES

Collect data to assess nursing needs of the client with neurological disorders.

COURSE CONTENT

I. Assessment
    A. Subjective Data
        1. History
        2. Visual/Auditory/Speech Problems
        3. Weakness
    B. Objective Data
        1. Personality Changes
        2. Changes in Sensation
            a. Hypothesia
            b. Parathesia
            c. Anesthesia
            d. Pain
        3. Changes in Motor Function
            a. Muscle Weakness
            b. Paralysis
                i. Spasticity
                ii. Tremors
                iii. Shuffling Gait
                iv. Seizures
                v. Bowel/Bladder Dysfunction
        4. Changes in Level of Consciousness
        5. Glasgow Coma Scale
        6. Pupillary Response
        7. CSF Leakage
        8. Vital Signs

LEARNING ACTIVITIES & EVALUATION

Prior to class, review anatomy and physiology of brain, spinal cord, and nervous system.
Assigned readings.

NUR: ADN 3 UNIT: I PAGE 2 of 3

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Related Data 1. Diagnostic Testing a. Lumbar Puncture b. Radiologic Films c. CATscan d. MRI e. Neostigmine Injection f. EEG 2. Blood Tests	
Identify common health problems which affect the neurological system.	II. Common Well-Defined Health A. Seizures B. Cerebro-vascular Accident C. Cerebral Aneurysm/ Intracranial Bleed D. Spinal Cord Injury E. Parkinson's Disease F. Myasthenia Gravis G. Multiple Sclerosis H. Guillain-Barre Syndrome I. Contusion/Concussion J. Skull Fracture K. Brain Tumors L. Infections M. Amyotrophic Lateral Sclerosis	Assigned readings. AV Video: Spinal Cord Injuries
Discuss the treatment designed to restore and maintain health of clients who experience alterations in the neurological system.	III. Management A. Medications 1. Anticonvulsives 2. Steroids 3. Psychotropic 4. Osmotic Diuretics 5. Cholinergic Drugs 6. Antiparkinson Agents 7. Antispasmodics/Muscle Relaxants	Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	B. Dietary 1. Mechanical Diets 2. Calorie Regulation C. Mechanical Intervention 1. Cervical Traction 2. Stryker Frame/Circle Bed 3. Ventilators D. Surgical Intervention 1. Removal of Tumors 2. Carotid Endarterectomy 3. Cerebrovascular Repair	
Make an analysis of independent and interdependent nursing actions in the management of a client with neurological disease.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Interventions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	Assigned readings.

THE WILLIAMSPORT COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 3

UNIT : II

TITLE: Musculoskeletal System

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Collect data to assess nursing needs of the client with musculoskeletal disorders.	I. Assessment A. Subjective Data 1. History 2. Pain B. Objective Data 1. Loss of Function 2. Localized Edema 3. Deformity 4. Skin Discoloration 5. False Motion/Limited Range of Motion 6. Crepitation 7. Presence of Distal Pulses C. Related Data 1. Diagnostic Testing a. Radiographic Studies b. CATscan c. MRI d. Myelogram 2. Blood Tests a. Sedimentation Rate	Prior to class, review anatomy and physiology of musculoskeletal system. Assigned readings.
Identify common health problems which affect the musculoskeletal system.	II. Common Well-Defined Health Problems A. Arthritis B. Fractures 1. Complete 2. Incomplete 3. Closed	Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	B. Fractures (continued) 4. Greenstick 5. Transverse 6. Oblique 7. Spiral 8. Comminuted 9. Depressed 10. Compression 11. Pathologic C. Strains/Sprains D. Herniated Disc E. Osteoporosis F. Osteomyelitis G. Amputation H. Low Back Pain I. Hip Replacement J. Fractured Hip	
Discuss the treatment designed to restore and maintain health of clients who experience alterations in the musculoskeletal system.	III. Management A. Medications 1. Muscle Relaxants 2. Analgesics 3. Anti-inflammatory Medications 4. Anti-infectives 5. Calcium Supplements B. Dietary	Assigned readings.
	C. Mechanical Interventions 1. Traction a. Open b. Closed 2. Prosthesis 3. Joint Replacements 4. Crutches, Walkers, Canes	Skills lab practice - crutch walking, bedmaking with client in traction.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	D. Surgical Interventions 1. Open Reduction of Fracture 2. Joint Replacement 3. Laminectomy 4. Amputation	
Make an analysis of independent and interdependent nursing actions in the management of a client with musculoskeletal disease.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Actions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	Assigned readings.

THE WILLIAMSPORT A . COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 3

UNIT : III

TITLE: Gastrointestinal System

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Collect data to assess nursing needs of the client with gastrointestinal disorders.	I. Assessment A. Subjective Data 1. History 2. Eating Patterns/ Habits/Preferences 3. Indigestion 4. Aerophagia 5. Hyperacidity 6. Vomiting 7. Anorexia 8. Dysphagia 9. Pain 10. Diarrhea 11. Constipation 12. Flatulence B. Objective Data 1. Color/Condition of Skin/Petechiae/Pruritis 2. Bowel Sounds 3. Tenderness/Pain 4. Muscle Tone 5. Masses 6. Distention 7. Diarrhea 8. Constipation 9. Bleeding 10. Nausea/Vomiting 11. Anorexia/Weight Loss 12. Low Grade Fever 13. Ascites 14. Acolic Stools	Independent review of anatomy and physiology of the gastrointestinal system. Assigned readings.

CONTRIBUTORY OBJECTIVES | COURSE CONTENT | LEARNING ACTIVITIES & EVALUATION

C. Related Data
  1. Diagnostic Testing
    a. Radiological
      i. Upper/Lower GI Series
      ii. Cholecystogram
      iii. KUB
    b. Ultrasound
    c. Endoscopy
      i. Esophagoscopy
      ii. Gastroscopy
      iii. Duodenoscopy
    d. Gastric Analysis
    e. Stool Examinations
    f. Exfoliative Cytology
    g. CATscan
    h. MRI
    i. Nuclear Medicine Studies
  2. Blood Tests
    a. Liver Enzymes
    b. PT, PTT
    c. Hgb, Hct
    d. CEA
    e. Hepatitis A/B Antigen
    f. Amylase
    g. Serum Bilirubin

Identify common health problems which affect the gastrointestinal system.

II. Common Well-Defined Health Problems
  A. Gallbladder Disease
  B. Hepatitis
    1. Hepatitis A
    2. Hepatitis B
    3. Non-A/Non-B Hepatitis

Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Cirrhosis of the Liver 1. Esophageal Varices 2. Hepatic Coma 3. Other Complications D. Peptic Ulcers E. Infectious Diarrhea F. Malabsorption Disorders G. Food Intolerances H. Ulcerative Colitis I. Crohn's Disease J. Diverticulitis K. Obstructions L. Appendicitis M. Pancreatitis	
Discuss the treatment designed to restore and maintain health of clients who experience alterations in the gastrointestinal system.	III. Management A. Medications 1. Antacids 2. Vitamins 3. Steroids 4. Anti-infectives 5. Histamine Blockers 6. Analgesics 7. Lactulose B. Dietary 1. Total Parenteral Nutrition (TPN) 2. Therapeutic Diets a. Low Fat b. High Protein 3. Mechanical Diets	Assigned readings. Complete assigned drug cards.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Surgical Intervention 1. Gastric Resection a. Ostomy 2. Appendectomy 3. Cholecystectomy	
Make an analysis of independent and interdependent nursing actions in the management of a client with disease of the digestive system.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Actions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	Assigned readings. Care for client with digestive disorder in the health agency.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 3

UNIT : IV

TITLE: Endocrine System

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Collect data to assess nursing needs of the client with endocrine disorders.	I. Assessment A. Subjective Data 1. History 2. Changes in Appetite 3. Changes in Fluid Intake 4. Changes in Fluid Output 5. Weight Loss 6. Fatigue 7. Weakness 8. Pruritus 9. Headache 10. Nausea/Vomiting 11. Vertigo 12. Blurring of Vision 13. Numbness of Lips and Tongue B. Objective Data 1. Nervous/Irritable 2. Fine Hand Tremors/ Awkward/Clumsiness 3. Palpitations 4. Dry Skin and Hair 5. Exophthalmos 6. Heat/Cold Intolerance 7. Irregular Menses 8. Weight Loss 9. Dehydration	Independent review of anatomy and physiology of the endocrine system. Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Related Data 1. Diagnostic Testing a. Nuclear Scan b. CATscan c. MRI 2. Blood Tests a. Blood Glucose Tests b. Glucose Tolerance Test c. Serum Hormone Levels	
Identify common health problems which affect the endocrine system.	II. Common Well-Defined Health Problems A. Diabetes B. Hypoglycemia C. Hypo-/Hyperthyroidism D. Hypo-/Hyperparathyroidism E. Hypo-/Hyperpituitarism F. Addison's Disease/Addisonian Crisis G. Primary Aldosteronism H. Cushing's Syndrome I. Inappropriate ADH J. Diabetes Insipidus K. Pheochromocytoma	Assigned readings.
Discuss the treatment designed to restore and maintain health of clients who experience alterations in the endocrine system.	III. Management A. Medications 1. Insulin 2. Oral Hypoglycemics 3. Thyroid Replacement 4. Antithyroid Medications 5. Hormonal Replacement B. Dietary 1. Diabetic Diets 2. Calorie Regulation	Complete nursing care plan for client with an endocrine disorder.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Surgical Intervention 1. Removal of Malfunctioning Gland 2. Removal of Neoplasm	
Make an analysis of independent and interdependent nursing actions in the management of a client with endocrine disorders.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Actions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 3

UNIT : V

TITLE: Reproductive System

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Collect data to assess nursing needs of the client with disorders of the reproductive system.	I. Assessment A. Subjective Data 1. History 2. LMP and Characteristics 3. Pain 4. Male - Alteration in Flow/Force Urination 5. Impotence B. Objective Data 1. Vaginal or Penile Discharge 2. Breast Lump - Palpable 3. Drainage - Nipples 4. Vaginal Odor 5. Palpable Testicular Lump C. Related Data 1. Diagnostic Testing a. Cultures - Vaginal or Male Urethra b. Paps Smear c. Biopsy d. Mammography e. CATscan f. MRI 2. Blood Tests a. HIV Antibodies b. Serology	Assigned reading. Independent review of anatomy and physiology of the reproductive system.

NUR: ADN 3 UNIT: V PAGE 2 of 3

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Identify common health problems which affect the reproductive system.	II. Common Well-Defined Health Problems A. Benign Prostatic Hypertrophy B. Dysfunctional Uterine Bleeding C. Fibrocystic Breast Disease D. Uterine Prolapse E. Cystocele/Rectocele F. Male Impotence G. Sexually Transmitted Diseases 1. Gonorrhea 2. Syphilis 3. Chlamydia 4. Herpes 5. AIDS 6. Monilia H. Fistulas	Assigned readings.
Discuss the treatment designed to restore and maintain health of clients who experience alterations in the reproductive system.	III. Management A. Medications 1. Hormone Therapy 2. Anti-infectives B. Mechanical Interventions 1. Penile Implants 2. Breast Reconstructive Devices 3. Pessary C. Surgical Intervention 1. Prostatectomy 2. Mastectomy 3. Vulvectomy 4. Hysterectomy 5. Orchiectomy	Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Make an analysis of independent and interdependent nursing actions in the management of a client with reproductive disorders.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Actions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	Assigned readings.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 3

UNIT : VI

TITLE: Cancer

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Collect data to assess nursing needs of the client with cancer.	I. Assessment A. Subjective Data 1. History 2. Pain 3. Nausea 4. Fatigue/Weakness 5. Anorexia B. Objective Data 1. Skin Color 2. Bleeding 3. Respiratory Distress/ Dyspnea 4. Abdominal Tenderness 5. Palpable Mass/Lesion 6. Coffee Ground Emesis 7. Obvious or Occult Blood in Stool 8. Cough 9. Dysphagia/Hoarseness C. Related Data 1. Diagnostic Testing a. Radiographs b. Biopsy c. CATscan d. MRI e. Nuclear Scans f. Estrogen Receptor Sites g. Cytology h. Ultrasound i. Endoscopy j. Angiography	Assigned readings.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Related Data (continued) 2. Blood Tests a. CBC b. CEA c. PAP (Prastatic Acid Phosphatase)	
Identify common health problems of the cancer client.	II. Common Well-Defined Health Problems A. Breast Cancer B. Uterine and Cervical Cancer C. Cancer of the Prostate D. Cancer of the Larynx E. Lung Cancer F. Cancer of the Stomach/Colon G. Testicular Cancer H. Bone Cancer	Assigned readings.
Discuss the treatment designed to restore and maintain health of clients who experience cancer.	III. Management A. Medications 1. Antineoplastic Drugs 2. Hormones B. Dietary 1. High Caloric Diets 2. High Protein 3. Total Parenteral Nutrition C. Mechanical Interventions 1. Artificial Larynx 2. Radiation Therapy D. Surgical Interventions	Assigned readings.

NUR: ADN 3 UNIT: VI PAGE 3 of 3

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Make an analysis of independent and interdependent nursing actions in the management of a client with cancer.	IV. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Actions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	Assigned readings.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING IV (NUR IV)
CATALOG DESCRIPTION

DESCRIPTION:	The nursing process is utilized to study the needs of child health. In this course, emphasis is on normal growth and development, the developmental process through the lifespan, the nurse and the ill child, and nursing interventions in childhood diseases. Diet therapy and pharmacology is integrated as well as current concepts.
PREREQUISITES:	NUR I, NUR II, BIO 115, BIO 125, PSY 111, PSY 203, ENL 111, ENL 121,
CO-REQUISITES:	NUR III, BIO 201, SOC 111
PLACEMENT:	Semester III
CREDITS:	5 (3-6)
RATIONALE:	This course is designed to continue the study of medical-surgical concepts and principles which will enable the student to apply the nursing process in caring for children with common health problems. Technical skills learned in Semesters I and II are refined and augmented in this course.
TEXTBOOKS:	Marlow and Redding. Pediatric Nursing. Sixth edition. W. B. Saunders, Company, 1987.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING IV (NUR IV)
COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

1. identify causes, signs and symptoms, and treatments of common well-defined health problems of children.
2. identify normal growth and development process through the lifespan.
3. utilize the nursing process in caring for children of all ages.
4. plan and implement nursing interventions based upon the formulation of a nursing diagnosis and goals.
5. implement common nursing interventions to achieve client care goals.
6. evaluate and revise personal and professional goals in an ongoing manner to reflect a committment to nursing practice.
7. engage in the process of lifelong learning through participation in formal and informal educational activities.

NUR : ADN 4

UNIT : I

TITLE: Introduction to Child Health

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Discuss the goals and trends of child health nursing.	I. Introduction A. Illness in Children as a Crisis B. Child Health Nursing C. Present Concepts Influencing Care of the Growing Family 1. Urban vs. Rural 2. Rich vs. Poor 3. Single-Parent Families 4. Communal Living D. Illness in Children 1. Mortality Rate a. Infant b. Childhood 2. Steps to Improve Health Care E. Changing Role of Nursing in Child Health 1. Preventive Care 2. Ambulatory Care 3. Specialty Care	Assigned readings. Lecture/Discussion

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ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 4

UNIT : II

TITLE: Normal Growth and Development

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Understand the stages of growth and development.	I. Definitions of Growth and Development A. Growth B. Development C. Aging D. Maturation E. Senescence	Assigned readings. Day care experience. Pediatrics in health agency.
Discuss and list factors influencing growth and development.	II. Factors Influencing Growth and Development A. Genetic B. Sex C. Race and Nationality D. Environmental E. Health F. Nutrition G. Socioeconomic Level H. Ordinal Position in the Family	
Describe the normal principles of growth and development.	III. Sequence A. Continuous Process B. Orderly Sequence C. Predictable Stages D. Body Systems E. Cephalocaudal F. Proximal/Distal G. Optimal Tissue H. Primitive Reflexes I. Skill and Behavior	Assigned readings. Lecture/Discussion

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UNIT: II

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Understand Theory of Developmental Crisis including references to Freud, Piaget, and Erikson.	IV. Skill and Learning Process A. Infant B. Toddler C. Preschool D. School E. Adolescence	

THE WILLIAMSPORT AR. . COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 4

UNIT : III

TITLE: Developmental Process Through the Lifespan

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe developmental aspects of all age groups, infant through old age. 1) Special needs of the infant.	I. Infancy A. Physical Assessment of the Infant B. Nutritional Needs C. Developmental Tasks D. Immunization	AV: Appraisal of the Newborn Child Development: The Infant Years (worksheet to accompany filmstrip and additional reading) Year One
2) Special needs of the toddler.	I. Toddler Years A. Physical Changes B. Nutritional Needs C. Developmental Tasks D. Special Needs and Nursing Measures 1. Separation Anxiety	AV: The Toddler (worksheet to accompany filmstrip and additional reading) Childhood: The Enchanted Years Language Development (F1)
3) Special needs of the preschool child.	III. Preschool Years A. Physical Changes B. Nutritional Needs C. Developmental Tasks D. Special Needs and Nursing Measures 1. Play Therapy 2. Dental Care	AV: The Preschool Years (worksheet to accompany filmstrip and additional reading) Morality - The Process of Moral Development (F1) Play in the Hospital (F1)
4) Special needs of the school-age child.	IV. School Age A. Physical Changes B. Nutritional Needs C. Developmental Tasks D. Special Needs and Nursing Measures	AV: The School Age Child (worksheet to accompany filmstrip and additional reading) Cognitive Development (F1)

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
5) Special needs of the adolescent.	V. Adolescence A. Physical Changes B. Nutritional Needs C. Developmental Tasks	AV: The Adolescent Years (worksheet to accompany filmstrip and additional reading)
6) Special needs of the young adult and family.	VI. Young Adulthood A. Physical Changes B. Nutritional Needs C. Developmental Tasks D. Special Needs and Nursing Measures E. Stages of Family Life 1. Non-traditional Family 2. Alternative Life Styles a. Communes b. Extended Family	AV: Development of the Adult (Fl) (worksheet and additional reading)
7) Special needs of the middle age adult.	VII. Middle Age A. Physical Changes B. Nutritional Needs C. Developmental Tasks D. Special Needs and Nursing Measures 1. Mid-life Crisis E. Stages of Family Life and Alternative Lifestyles	Worksheet and additional readings*. AV: The Middle Years
8) Special needs of the older adult.	VIII. Old Age A. Physical Changes B. Nutritional Needs C. Developmental Tasks D. Special Needs and Nursing Measures 1. Teaching the Older Adult 2. Problems of Aging	Module on geriatric nursing with worksheet and additional reading. AV: Biologic Changes of Aging The Final Proud Days of Elsie Wurster (Fl) To Age is Human (Fl) Forever Young (Fl)

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ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 4

UNIT : IV

TITLE: The Nurse and the Ill Child

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Discuss hospitalization of a child.	I. Methods or Routes of Entering a Health Care Delivery System A. Well-Baby Clinics B. Community Care Agencies C. Pediatricians Office D. Child Born Handicapped E. Elective Hospitalization 1. Chief Concern 2. Family Profile 3. Past Experience with Illness 4. Daily Routine 5. Developmental Survey F. Emergency Department	AV: Admission and Orientation of Child to the Hospital
	II. Working with Parents of Ill Child A. Grief Reaction B. Teaching Parents	
	III. The Ill Child A. Nutrition B. Fluid and Electrolyte Balance C. Body Response to Illness D. Age-specific Diseases E. Lack of Ability to Communicate F. Safety Factors G. Psychological Factors	Handout: Safety Measures for Pediatric Clients

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CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	IV. Discharge of the Child (Teaching) A. Procedures 1. Dressing Changes 2. Temperatures 3. Specimens B. Medications	
Understand the response of children to hospitalization.	V. The Meaning of a Mother to a Child	
	VI. Reducing the Anxiety of Hospitalization A. Limit Admissions B. Limit Length of Stay C. Allow Open Visiting D. Provide Substitute Mother E. Adequate Play Facilities F. Prepare Children for Hospital	
Discuss and describe the meaning of play to a child.	VII. Assessing Child Health Through Play A. Play Space B. Therapeutic Play	
Describe techniques of child health nursing interventions.	VIII. Special Policies and Procedures A. Medications 1. Client Identification 2. Client Approach B. Medication Dosages C. Methods of Administration 1. Oral 2. Nose 3. Eye 4. Rectal 5. Intramuscular 6. Subcutaneous 7. Intravenous	

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CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	D. Safety 1. Fire Precautions 2. Child's Whereabouts 3. Bathrooms 4. Client Identity 5. Preventing Infection 6. Restraints E. Collection of Specimens 1. Blood 2. Urine 3. Stool F. Preparing the Child for Surgery	

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 4

UNIT : V

TITLE: Nursing Interventions in Childhood Diseases

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Identify health problems which affect children and discuss the treatment designed to restore and maintain health of clients who experience these alterations.	I. Health Problems A. Infections and Communicable Disorders 1. GI Infections 2. Skin Infections 3. Respiratory Infections 4. Communicable Diseases 5. Urinary Infections 6. Rheumatic Fever	Practice the "set up" and monitor croup tent in campus lab and in clinical area under supervision. Care for client in clinical setting when available.
	B. Congenital Anomalies 1. Congenital Heart Disease 2. Sickle Cell 3. Cleft Lip and Palate 4. Cystic Fibrosis 5. PKU 6. Pyloric Stenosis 7. Omphalocele 8. Imperforate Anus 9. Epi- or Hypospadius 10. Clubfoot 11. Dislocated Hip 12. Hydrocephalus 13. Spina Bifida 14. Down's Syndrome 15. Fetal Alcohol Syndrome 16. Fistulas 17. Cerebral Palsy	AV: Cleft Lip and Palate Cystic Fibrosis Clubfoot and Dislocated Hip Down's Syndrome

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CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	C. Traumatic Injuries 1. Poisoning 2. Burns 3. Choking 4. Lacerations/Wounds 5. Animal Bites 6. Suffocation D. Miscellaneous Conditions of Childhood 1. Scoliosis 2. Cryptorchism 3. T & A 4. Failure to Thrive	Handout: First Aid for Poisoning
	E. Sudden Infant Death Syndrome F. Child Abuse G. Cancer in Children H. The Dying Child	AV: SIDS The Battered Child Syndrome Grief Therapy (F1) Assigned readings. Lecture/Discussion
Identify drugs prescribed to treat diseases and disorders of childhood including nursing implications.	II. Drugs Used in Pediatrics A. Dosages for Children B. Nursing Implications	Complete assigned or appropriate drug cards.
Make an analysis of independent and interedependent nursing actions in the management of a client with childhood diseases and disorders.	III. Nursing Interventions A. Nursing Diagnosis 1. Psychological a. Safety/Security b. Love and Belonging c. Esteem d. Self-actualization 2. Physiological a. Safety b. Acute vs. Chronic Problems B. Common Nursing Actions C. Evaluation 1. Goal Achievement 2. Client Response 3. Health Teaching	

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THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING V (NUR V)
CATALOG DESCRIPTION

DESCRIPTION:	The nursing process is utilized to study the growing family. The course focuses on the concept of the family as a social unit. The emphasis is on the normal and abnormal prenatal, intrapartum, and postpartum periods and the newborn. Included are history, current trends, and social and environmental influences, as well as pharmacology and nutrition.
PREREQUISITES:	NUR I, NUR II, NUR III, NUR IV, BIO 115, BIO 125, BIO 201, PSY 111, PSY 203, SOC 111, ENL 111, ENL 121
CO-REQUISITES:	NUR VI, NUR SEMINAR, CHM 122
PLACEMENT:	Semester IV
CREDITS:	5 (3-6)
RATIONALE:	This course is designed to continue the study of medical-surgical concepts and principles which will enable the student to apply the nursing process in caring for the growing family. Technical skills learned in Semesters I, II, and III are refined and augmented in this course.
TEXTBOOK:	Holmes and Magiera. Maternity Nursing. Macmillan, 1987.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING V (NUR V)
COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

1. identify signs and symptoms of the antepartal, intrapartal, and postpartal periods.
2. describe healthy and detrimental conditions observed in the neonate.
3. utilize the nursing process to assist the growing family in adapting to the birthing process.
4. plan and implement nursing interventions based upon the formulation of a nursing diagnosis and goals.
5. implement common nursing interventions to achieve client care goals.
6. evaluate goal achievement and client response to care.
7. evaluate and revise personal and professional goals in an ongoing manner to reflect a commitment to nursing practice.
8. engage in the process of lifelong learning through participation in formal and informal educational activities.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 5

UNIT : I

TITLE: Introduction and Overview

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Discuss the background for the study of family-centered maternity/newborn care.	I. Historical Background A. Ancient B. Medieval C. Renaissance D. Seventh to Nineteenth Century E. Twentieth Century	Assigned readings. Lecture/Discussion
	II. Definitions A. Neonatal Period B. Perinatal Period C. Neonatologist D. Perinatologist E. Infant Mortality Rate (IMR) F. Maternal Mortality Rate G. Neonatal Mortailty Rate	Assigned readings. Dictionary
	III. Current Problems and Trends A. IMR B. Maternal Mortality C. Improving Maternity Care 1. Tertiary Care 2. Intermediate Care 3. Primary Care	Assigned readings. Lecture/Discussion
Discuss the parenting process both mothering and fathering.	IV. The Family A. Communal Settlements B. Social Contract Marriages C. Single Parents D. Blended Families E. Divorced Families	Assigned readings. Lecture/Discussion

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe the variations influencing the parenting process.	V. Family-Centered Maternity and Newborn Care A. Cultures B. Rights C. Attitudes	Assigned readings. Lecture/Discussion
	VI. Paternal Involvement in Labor and Birth A. Benefits of the Father's Participation	Assigned readings. Lecture/Discussion
	VII. Psychological Aspects of: A. Siblings B. Grandparents C. Postpartum	Assigned readings. Lecture/Discussion
	VIII. Parent-Infant Attachment A. Bonding During Pregnancy B. Bonding Behavior	Assigned readings. Lecture/Discussion
Understand the primary parts and functions of the female and male reproductive system.	IX. Anatomy and Physiology of the Reproductive System A. Female B. Male	AV: The Male and Female Reproductive System Self overview. Maternity text. Biology text.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 5

UNIT : II

TITLE: Conception and Prenatal Development

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe the process of conception, implantation, and placental development.	I. Fertilization II. Cleavage III. Implantation IV. Trophoblastic Stage	AV: Life Before Birth RNA DNA
Identify chromosomal abnormalities that can be detected by examination of amniotic fluid.	V. Amniotic Fluid A. Function B. Amniocentesis C. Polyhydramnios D. Oligohydramnios VI. Embryo A. Embryonic Development VII. Placenta A. Placental Transfer	Assigned readings. Lecture/Discussion
Describe prenatal development and environment.	VIII. Fetal Development A. Stages B. Fetal Circulation	AV: Fetal Circulation Compare fetal and adult circulation.
Explain how common characteristics are inherited.	IX. Sex Determination and Heredity A. Dominant and Recessive Traits B. Sex-Linked Characteristics	Assigned readings. Lecture/Discussion

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Discuss relationship between the incidence of Down's Syndrome and maternal age as well as environmental factors affecting birth defects.	X. Birth Defects A. Chromosomal Abnormalities B. Environmental Agents	Assigned readings. Lecture/Discussion
	XI. Counseling A. Genetic B. Infertility	Assigned readings. Lecture/Discussion

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 5

UNIT : III

TITLE: The Antepartum Family and Complications

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe the physiological changes resulting from pregnancy by identifying at least one change in each body system.	I. Physiological Changes A. Reproductive System B. Skeletal System C. Circulatory System D. Integumentary System E. Respiratory System F. Gastrointestinal System G. Urinary System H. Endocrine System	Assigned readings. Lecture/Discussion
Differentiate among the presumptive, probable and positive signs and symptoms of pregnancy.	II. Signs and Symptoms A. Presumptive B. Probable C. Positive	Assigned readings. Lecture/Discussion
Explain the importance of prenatal care and describe nursing responsibilities during the prenatal examination.	III. Prenatal Care A. Importance B. Nursing Responsibilities C. Medical History D. Physical Examination E. Laboratory Tests 1. Serology 2. Rh Factor and Blood Type 3. Rubella Screening 4. Urine Tests	Assigned readings. Lecture/Discussion Work in groups - practice taking a history.
Describe the nutritional needs during pregnancy.	IV. Nutritional Needs	Assigned readings. Lecture/Discussion Plan a diet for a normal pregnant woman.

NUR: ADN 5 UNIT: III

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe and list common discomforts of pregnancy and ways to alleviate them.	V. Common Discomforts	Assigned readings. Lecture/Discussion
List advantages of breast and formula feeding.	VI. Breastfeeding vs. Formula Feeding A. Nutritional Aspects B. Allergies C. Immunological Aspects D. Psychological Aspects E. Economy F. Safety G. Convenience H. Family	Assigned readings. Lecture/Discussion
Describe danger signs that may indicate complications of pregnancy.	VII. Danger Signs in Pregnancy	Assigned readings. Lecture/Discussion
Describe major complications of pregnancy.	VIII. Major Complications A. Pre-eclampsia B. Eclampsia C. Chronic Hypertensive Vascular Disease D. Rh Factor E. ABO Incompatibility F. Bleeding - Early Pregnancy 1. Abortion 2. Ectopic Pregnancy 3. Hydatiform Mole G. Bleeding - Late Pregnancy 1. Placenta Previa 2. Abruptio Placentae H. Hyperemesis Gravidarum I. Diabetes J. Multiple Pregnancy K. Heart Disease L. Anemia M. Drug Addiction	Assigned readings. AV Video: Complications of Pregnancy - Toxemia Complications of Pregnancy - Infection Complications of Pregnancy - Hemorrhage

NUR: ADN 5 UNIT: III PAGE 3 of 3

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe common diagnostic tests used in high-risk pregnancies.	IX. Diagnostic Techniques A. Ultrasonography B. Amniocentesis C. Amniotic Fluid Studies D. Nonstress Test	

NUR : ADN 5

UNIT : IV

TITLE: Preparation for Childbirth

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Discuss the advantages of prenatal classes and the role of the support person.	I. Methods of Childbirth Preparation A. Dick-Read B. Lamaze C. Bradley	Assigned readings. Lecture/Discussion Guest lecturer.
	II. Types of Parenting Classes A. Early, Mid- or Late Pregnancy B. After Birth Classes C. Repeat Parents D. Sibling Preparation E. Grandparenting Classes	Assigned readings. Lecture/Discussion Attend parenting classes. Determine types of classes available in your community.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 5

UNIT : V

TITLE: The Intrapartum Family

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe the labor and birth process. Explain nursing care of the clients.	I. Process of Labor A. Differentiate Between True and False Labor B. Process of Labor C. Stages of Labor 1. First 2. Second 3. Third 4. Fourth D. Fetopelvic Relationships 1. Lie 2. Presentation 3. Fetal Skull 4. Position 5. Lightening and Engagement 6. Station E. Mechanisms of Labor F. Nursing Care of the Family 1. Admission 2. Fetal Heart Tones 3. Contractions 4. Observations 5. Treatments 6. Drugs 7. Labor and Coaching Support	AV: Labor and Delivery Emergency Childbirth Assigned readings. Care for a client in the health agency.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	G. Delivery 1. Complications 2. Natural Childbirth 3. Preparation of Mother for Delivery 4. Anesthesia 5. Immediate Care of Newborn	

NUR : ADN 5

UNIT : VI

TITLE: The Postpartum Family

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe the postpartal period and explain nursing care of clients during the fourth stage of labor.	I. Postpartum Nursing Care A. Observations of Normal Puerperium B. Nursing Care C. Teaching	AV: Postpartum Care Article: "Getting Mother and Newborns off to a Good Start," RN, April 1984.
	II. Physical Adjustments of Body Systems	Assigned readings. Lecture/Discussion
	III. Postpartum Complications A. Hemorrhage B. Thrombophlebitis C. Mastitis D. Cystitis	
Describe the needs and problems of the neonate.	IV. Special Needs and Nursing Measures A. Immediate Care of the Newborn B. Gestational Age C. Infant Bath D. Breastfeeding E. Cord Care F. Crede	AV: Breastfeeding Your Baby Bathing the Baby Characteristics of Newborn Introduction to Infant Care
Describe how the newborn is registered by law in the United States.	V. Certificates A. Birth B. Death C. Stillborn	Assigned readings. Lecture/Discussion

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CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Discuss aspects of family planning.	VI. Methods of Birth Control A. Non-permanent B. Permanent (sterilization) 1. Procedures 2. Nursing Care C. Legal and Ethical Issues	Assigned readings. Lecture/Discussion

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING VI (NUR VI)
CATALOG DESCRIPTION

DESCRIPTION: This course provides the student with an understanding of the nursing needs of clients who experience psychiatric/mental health problems. The focus of clinical care is on the adult client, although theory content will include selected concepts from child and adolescent populations. Students will function with clients and other health professionals in improving the quality of mental health care.

PREREQUISITES: NUR I, NUR II, NUR III, NUR IV, BIO 115, BIO 125, BIO 201, PSY 111, PSY 203, ENL 111, ENL 121, SOC 111

CO-REQUISITES: NUR V, NUR SEMINAR, CHM 122

PLACEMENT: Semester IV

CREDITS: 5 (3-6)

RATIONALE: Content from this and other sequential nursing courses is designed to deliver the appropriate theory and clinical practice necessary in preparation for the national licensing examination (NCLEX-RN). Although taught as a separate course, the principle concepts of mental health nursing are applicable in any setting where nursing takes place.

TEXTBOOKS: Burgess, Ann W. Psychiatric Nursing in the Hosptial and the Community. Fourth edition. Prentice-Hall, Inc., 1985.

Robinson, Lisa. Psychological Aspects of the Care of Hospitalized Patients. Fourth edition. F. A. Davis, 1984.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING VI (NUR VI)
COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

1. function with beginning expertise and responsibility as a member of the mental health care team.
2. communicate with clients who are experiencing an alteration in their level of mental health functioning.
3. explain the meaning of mental health and describe characteristics of a psychologically healthy individual.
4. perform a psychiatric mental health nursing assessment on a selected client in the health agency.
5. utilize the nursing process to develop a plan of care for a selected client in the health agency.
6. evaluate and revise personal and professional goals in an ongoing manner to reflect a commitment to nursing practice.
7. engage in the process of lifelong learning through participation in formal and informal educational activities.

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ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 6

UNIT : I

TITLE: Psychiatric Nursing Practice

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
State the primary mode of mental health treatment during key periods from prehistoric times to the present.	I. Mental Health Delivery System A. Historical Perspective 1. Psychiatric Nursing Before 1890 2. Psychiatric Nursing from 1890-1930 3. Psychiatric Nursing from 1930-present	Assigned text readings. Book critique: A Mind that Found Itself. Beers, C.
Discuss the concept of competency versus issues related to committment. Define voluntary, emergency involuntary, and indefinite involuntary admission to in-patient psychiatric hospitals. Discuss the legal rights of psychiatric clients.	II. Legal Aspects of Mental Health Nursing A. Competency B. Types of Psychiatric Admissions C. Legal Rights of Clients 1. Informed Consent 2. Aversive Therapies 3. Right to Aftercare	Assigned text readings. Lecture/Discussion
Define functions of mental health care team members.	III. The Mental Health Team A. Roles and Functions of Mental Health Professionals	Assigned text readings. Lecture/Discussion

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CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	B. Roles and Functions of the Nurse 1. The Nurse as Creator of a Therapeutic Environment 2. The Nurse as Counselor 3. The Nurse as Teacher 4. The Nurse as Parental Surrogate 5. The Technical Nursing Role	Banes, Judith. "An Ex-Patient's Perspective of Psychiatric Treatment." Journal of Psychiatric Nursing and Mental Health Services. March 1983. Volume 21, No. 3, p. 11-20.

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NUR : ADN 6

UNIT : II

TITLE: Theoretical Frameworks in Psychiatric Mental Health Nursing

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Name the three levels of awareness and three agencies of the mind.	I. The Psychodynamic Model A. Basic Drives B. Levels of Awareness 1. Unconscious 2. Preconscious 3. Conscious C. Agencies of the Mind 1. Id 2. Ego 3. Superego	Assigned readings. Lecture/Discussion
Discuss the role that developmental tasks play in Erik Erikson's theory of personality.	II. Erikson's Developmental Theory A. Trust/Mistrust B. Autonomy/Shame and Doubt C. Initiative/Guilt D. Industry/Inferiority E. Identity/Role Confusion F. Intimacy/Isolation G. Generativity/Stagnation	Lecture/Discussion Assigned readings.
Explain the meaning of mental health and give characteristics of a psychologically healthy individual.	III. Psychological Equilibrium Theory A. Concept of Mental Health B. Concept of Mental Distress 1. Feelings 2. Ego Affects a. Anxiety b. Depression c. Love d. Anger e. Guilt and Shame 3. Thoughts 4. Behaviors	Assigned readings. Lecture/Discussion Role playing.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Identify three criteria of mental dysfunction and give examples of each.	C. Concept of Mental Dysfunction 1. Subjective Criteria 2. Normative Criteria 3. Genetic Factors 4. Neurological Factors 5. Defense and Coping Mechanisms	Assigned readings. Lecture/Discussion AV: Defense Mechanisms

THE WILLIAMSPORT A. . COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 6

UNIT : III

TITLE: The Tools of Psychiatric Nursing

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
State the importance of self-awareness to the effective practice of psychiatric nursing.	I. Self-awareness of the Nurse A. Nature of Self-awareness B. Johari Window C. Beliefs and Feelings	Assigned readings. Lecture/Discussion Formulation of a philosophy of psychiatric nursing.
Define the communication process. Give examples of effective verbal and nonverbal communication.	II. Effective Communication A. Concept of Communication B. Modes of Communication 1. Verbal 2. Nonverbal C. Influences of Communication 1. Culture 2. Sexual Variations 3. Other Considerations	Lecture/Discussion Role playing.
Describe the psychiatric/mental health assessment process as a component of the nursing process.	III. Psychiatric Nursing Assessment A. Role of the Nurse B. Goals of Assessment C. Psychosocial History 1. Identifying Data 2. History of Present Illness 3. Past Personal History 4. Past Psychiatric History	Lecture/Discussion Role playing.

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
	D. Assessment of Current Status 1. Physical Characteristics 2. Speech 3. Psychomotor Activity 4. Mood, Affect, Perception 5. Thought Processes 6. Content of Thought 7. Judgment 8. Insight E. Nursing Diagnosis F. Planning for Care G. Implementing Care H. Evaluating Care	Care for a selected client in the health agency.
Name four catagories of psychotropic agents commonly used in the treatment of the mentally ill. State indications for use from each group of psychotropic agents.	IV. Psychotropic Agents A. Definition and Use B. Chemical Groups 1. Phenothiazines 2. Butyrophenones 3. Thioxanthenes 4. Oxoindoles 5. Dibenzoxazepines C. Method of Action D. Treatment Guidelines E. Evaluating Response to Intervention	Assigned readings. Lecture/Discussion
Discuss usual side effects of each category of psychotropic drugs.	F. Antidepressant Agents 1. Definition 2. Use 3. Chemical Groups a. Tricyclic b. Monoamine Oxidase Inhibitors 4. Method of Action 5. Treatment Guidelines 6. Evaluating Response	Assigned readings. Lecture/Discussion

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Discuss adverse effects of each category of psychotropic agents.	G. Antianxiety Agents	Assigned readings.
	1. Definition	Lecture/Discussion
	2. Use	
	3. Chemical Groups	
	4. Method of Action	
	5. Treatment Guidelines	
	6. Evaluating Response	
	H. Lithium Carbonate	Assigned readings.
	1. Definition	Lecture/Discussion
	2. Use	
	3. Method of Action	
	4. Treatment Guidelines	
	5. Evaluating Response	
	H. Other Therapies	Lecture/Discussion
	1. Physical/Medical	Assigned readings.
	a. ECT Therapy	
	b. Psychosurgery	
	2. Group Therapies	
	3. Behavior Management	
	4. Activity Therapy	

ASSOCIATE DEGREE NURSING PROGRAM

NUR : ADN 6

UNIT : IV

TITLE: Consumers of Psychiatric Nursing

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe the symptoms exhibited by a person with the medical diagnosis of schizophrenia. Discuss the dynamics of development of thought disturbances. Describe behaviors the nurse is most likely to observe in adults with thought disturbances. State examples of nursing diagnoses likely to be applicable to adults with thought disturbances.	I. Adults with Thought Disturbances A. Schizophrenic Disorders 1. Delusions 2. Hallucinations 3. Derailment 4. Affect B. Disorganized Type C. Paranoid Type D. Undifferentiated Type E. Residual Type F. Catatonic Behavior G. Nursing Diagnosis and Care	Develop a plan of nursing care for an adult with a thought disturbance. Care for client in clinical setting with a thought disturbance. Process recording and evaluation.
Describe three major symptoms of the manic phase of a bipolar affective disorder. List six major symptoms of a client with a major depressive disorder. State the difference between the symptoms of a person with manic depressive illness and a person with a cyclothymic disorder.	II. Adults with Mood Disturbances A. Bipolar Disorders 1. Mixed 2. Manic 3. Depressed B. Major Depressive Disorders C. Cyclothymic Disorder D. Dysthymic Disorder E. Nursing Diagnosis and Care	Develop a plan of nursing care for an adult who is depressed. Care for client in clinical setting with mood disturbance when available.
Describe one example of a phobic disorder, an anxiety state, and a somatoform disorder. Discuss the dynamics of development of anxiety disturbances.	III. Adults with Anxiety Disturbances A. Phobic Disorders B. Obsessive/Compulsive Disorders	Assigned readings. Lecture/Discussion Care for an adult with an anxiety disturbance in clinical setting when available.

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THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGRE JRSING PROGRAM

NUR : ADN 6

UNIT : V

TITLE: Populations at Risk

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Identify the range of emotional and behavioral disorders that may be present in adolescents. Discuss three major developmental tasks of adolescence. Describe common behavior disturbances of adolescence. Describe the characteristics of an adolescent suffering from the eating disorders of anorexia nervosa and bulimia.	I. Adolescents A. Major Developmental Tasks of Adolescence B. Separation Anxiety C. Juvenile Delinquency D. Sexual Promiscuity E. Eating Disorders 1. Anorexia Nervosa 2. Bulimia F. Nursing Diagnosis and Care	Assigned readings. Lecture/Discussion
Describe the symptoms exhibited by a person with the medical diagnosis of Alzheimer's disease. Discuss the dynamics of development of Alzheimer's disease. State examples of nursing diagnoses likely to be applicable to clients with Alzheimer's disease.	II. The Elderly A. The Aging Process 1. Life Review 2. Loneliness 3. Loss and Grief B. Alzheimer's Disease C. Nursing Diagnosis and Care	Develop a hypothetical plan of nursing care for an elderly person with Alzheimer's disease. Lecture/Discussion

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CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Describe the dying process.	III. The Dying and Bereaved A. Five Stages of Dying 1. Denial 2. Anger 3. Bargaining 4. Depression 5. Acceptance	Plan nursing care for the dying and the family of the dying client.
Describe the grieving process. Diagnose unresolved grief.	B. Grief Process 1. Shock and Disbelief 2. Developing Awareness 3. Restitution 4. Resolution	Book Review: Life after Life. Moody. AV: The Right to Die
Describe and assess suicidal behavior patterns.	C. Suicidal Behavior 1. Assessment 2. Diagnosis 3. Prevention 4. Adolescent 5. Elderly 6. Autoerotic D. Nursing Care	Assigned readings. Lecture/Discussion
Define child abuse and neglect as described by public law. Identify indicators that show child abuse is occurring.	IV. Child Abuse, Neglect, and Sexual Victimization A. Definition 1. Physical Abuse 2. Neglect B. Physical Signs C. Psychological and Behavioral D. Signs of Neglect E. Sexual Victimization of Children 1. Offender 2. Victim F. Nursing Responsibility	Lecture/Discussion

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THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING SEMINAR
CATALOG DESCRIPTION

DESCRIPTION: This course summarizes the nursing experience and stimulates critical thinking and conceptual analysis of those issues and concerns affecting nursing: political, social, economic, educational, and professional.

PREREQUISITES: NUR I, NUR II, NUR III, NUR IV

CO-REQUISITES: NUR V, NUR VI

PLACEMENT: Semester IV

CREDITS: 1 (1-0)

RATIONALE: This course serves the dual role of summarization and evaluation of past student nursing experiences as well as looking ahead to the transitional role from student to staff member. Through lecture and class participation, the student becomes aware of the role of the Associate Degree nurse as it relates to professional practice in the workplace.

TEXTBOOKS: Ashley, J. Hospitals, Paternalism, and the Role of the Nurse. Teacher's College Press, 1976.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NURSING SEMINAR
COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

1. discuss the historical influence on nursing practice.
2. define accountability, competency, and evaluation as they relate to nursing practice.
3. discuss Pennsylvania's Nurse Practice Act.
4. evaluate and revise personal and professional goals in an ongoing manner to reflect a committment to nursing practice.
5. engage in the process of lifelong learning through participation in formal and informal educational activities.

THE WILLIAMSPORT AREA COMMUNITY COLLEGE
ASSOCIATE DEGREE NURSING PROGRAM

NUR : SEMINAR

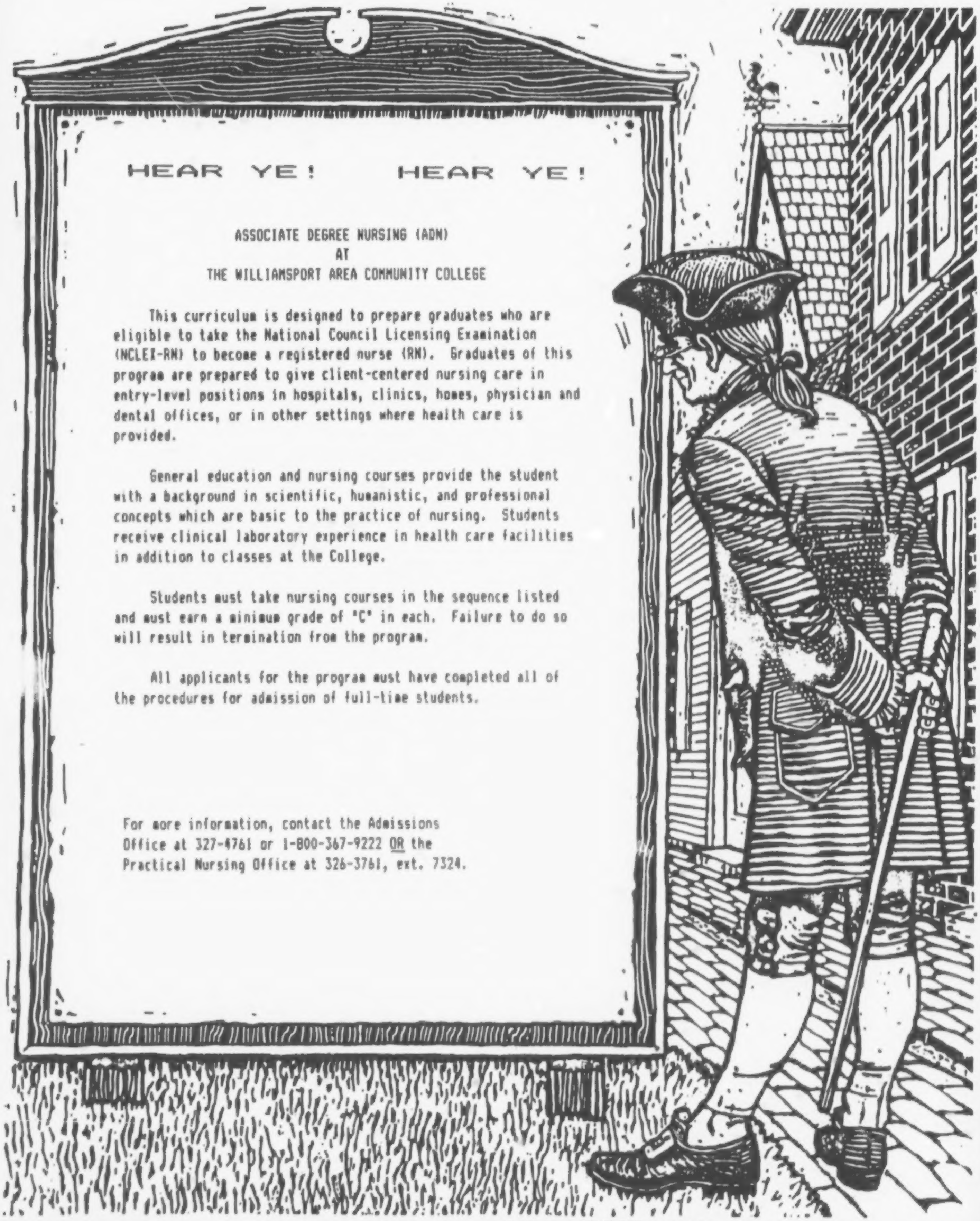
UNIT : I

TITLE: The Transition from Student to Staff Member

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
Develop a sense of hospital purposes and goals.	I. Purposes and Goals of Hospitals A. Teaching B. General	Classic Reading Assignment: Ashley, J. Hospitals, Paternalism, and the Role of the Nurse. Teacher's College Press, 1976.
Discuss societal and educational factors which have caused changes in the abilities and expectations of the new graduate. Develop an awareness of evaluation techniques in nursing.	II. Historical Influence on Nursing Practice A. World War II B. Education Trends C. Client Rights D. Human Rights Movement E. Woman's Movement F. Nurses Rights	Connelly, "Assertive Nurse," Nursing 78. January. p. 65-69.
Define competency as it applies to nursing. List major areas of competence which are of concern to employers.	III. Evaluation of Nurse Accountability A. Nursing Audit B. Quality Assurance Programs C. Nursing Care Standards	
	IV. Nurse Practice Acts (review)	
List six consistent expectations of employers of new graduates. Identify two areas in which expectations differ widely. Discuss ways of coping with expectations.	V. Employer Expectations A. Theoretical Background B. Use Nursing Process C. Recognition of Own Abilities and Limitations D. Record Keeping Abilities E. Work Ethic F. Awareness of Roles of Others	Silbe, M. B. "Managing Confrontation," Nursing Management. April 1984. p. 54, 56-58.

..: SEMIN. UNIT: I PAGE 2 .. 2

CONTRIBUTORY OBJECTIVES	COURSE CONTENT	LEARNING ACTIVITIES & EVALUATION
To increase awareness of own values and the systems values. Present constructive ways to deal with conflict experienced in work setting.		
	VI. Nursing Practice Approach A. Cognitive 1. Recognition 2. Assessment 3. Alternatives B. Behavioral 1. Awareness 2. Management	



HEAR YE!   HEAR YE!

ASSOCIATE DEGREE NURSING (ADN)
AT
THE WILLIAMSPORT AREA COMMUNITY COLLEGE

This curriculum is designed to prepare graduates who are eligible to take the National Council Licensing Examination (NCLEX-RN) to become a registered nurse (RN). Graduates of this program are prepared to give client-centered nursing care in entry-level positions in hospitals, clinics, homes, physician and dental offices, or in other settings where health care is provided.

General education and nursing courses provide the student with a background in scientific, humanistic, and professional concepts which are basic to the practice of nursing. Students receive clinical laboratory experience in health care facilities in addition to classes at the College.

Students must take nursing courses in the sequence listed and must earn a minimum grade of "C" in each. Failure to do so will result in termination from the program.

All applicants for the program must have completed all of the procedures for admission of full-time students.

For more information, contact the Admissions Office at 327-4761 or 1-800-367-9222 OR the Practical Nursing Office at 326-3761, ext. 7324.

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THE WILLIAMSPORT AREA COMMUNITY COLLEGE
NURSING PROGRAM

NURSING CURRICULUM

Semester I	Credits	
ENL 111 - English Composition I	3	(3-0)
PSY 111 - General Psychology	3	(3-0)
BIO 115 - Human Anatomy & Physiology I	4	(3-3)
NUR 115 - Nursing I - Foundations	8	(6-6)
	18	

Semester II	Credits	
ENL 121 - English Composition II	3	(3-0)
PSY 203 - Developmental Psychology	3	(3-0)
BIO 125 - Human Anatomy & Physiology II	4	(3-3)
NUR 125 - Nursing II - Med/Surg.	8	(5-9)
	18	

Semester III	Credits	
BIO 201 - Microbiology	4	(3-3)
SOC 111 - Introduction to Sociology	3	(3-0)
NUR 215 - Nursing III - Advanced Med/Surg.	5	(3-6)
NUR 216 - Nursing IV - Pediatrics	5	(3-6)
	17	

Semester IV	Credits	
CHM 122 - Introductory Organic Chemistry	4	(3-3)
NUR 220 - Nursing V - Maternity	5	(3-6)
NUR 221 - Nursing VI - Mental Health	5	(3-6)
NUR 222 - Nursing Transitions	1	(1-0)
- General Elective*	3	(3-0)
	18	

TOTAL CREDITS = 71

*Elective to be approved by Coordinator - dependent upon career goals of the student.